Journal of The Electrochemical Society

Volume 145 — 1998

Author and Title Index

and

Subject Index

Using the Indices

Only Letters, Technical Papers, and Review Papers are included in the indices, and titles have been limited to ASCII text. Thus, superscripts and subscripts are not differentiated from ordinary characters, and Greek letters and symbols are spelled out, replaced, or, in some cases, omitted.

In the Author and Title Index, first authors are listed with any coauthors, the issue and page numbers, and the title. All other authors are listed with a reference to the first author and the issue and page number.

In the Subject Index, all the words that have been judged not insignificant in the titles are indexed and shown in their context, together with the issue and page numbers.

Author	Issue	Page
Aaberg, Rolf Jarle; Tunold, Reidar; Mogensen, Mogens; Berg, R. W.; Odegard, R. Morphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Point Electrode	7	2244
Aaboubi, O., *see* Devos, O.	2	401
Aaboubi, O., *see* Devos, O.	12	4135
Aastrup, T.; Persson, D.; Odnevall Wallinder, I.; Leygraf, Christofer In Situ Infrared Reflection Absorption Spectroscopy Studies of Sulfuric Acid Formation on Platinum and Palladium Surfaces	2	487
Abdulsalam, Mohammed I., *see* Cho, Kyehyun	6	1962
Abdulsalam, Mohammed I.; Pickering, Howard W. The Effect of Crevice-Opening Dimension on the Stability of Crevice Corrosion for Nickel in Sulfuric Acid	7	2276
Abe, Hiroshi, *see* Zaghib, Karim	1	210
Abe, Keisei; Terashima, Kazutaka; Matsumoto, Takeshi; Maeda, Susumu; Nakanishi, Hideo; Hoshikawa, Keigo Oxygen Solubilities in Si Melts: The Influence of Carbon Addition	1	319
Abe, Keisei, *see* Maeda, Susumu	7	2548
Abe, T., *see* Morita, Hiroshi	5	1511
Abe, T., *see* Sassella, A.	5	1715
Abe, Takao, *see* Zaitsu, Y.	1	258
Abe, Toshio, *see* Shirai, Hiroshi	5	1720
Abe, Y., *see* Shiozawa, Katsuomi	5	1684
Abernathy, Cammy R., *see* MacKenzie, J. D.	7	2581
Abraham, K. M.; Pasquariello, D. M.; Willstaedt, E. M. Discharge Rate Capability of the LiCoO2 Electrode	2	482
Abraham, K. M., *see* Peramunage, D.	4	1131
Abraham, K. M., *see* Peramunage, D.	8	2609
Abraham, K. M., *see* Peramunage, D.	8	2615
Achutharaman, Raman, *see* Byun, Jeong Soo	11	3941
Acket, G. A., *see* Buda, Manuela	3	1076
Ado, Kazuaki, *see* Tabuchi, Mitsuhara	4	L49
Adolphi, B., *see* Kuhmann, J. F.	6	2138
Afanas'ev, V. V.; Stesmans, A.; Revesz, A. G.; Hughes, H. L. Oxygen Vacancies in SiO2 Layers on Si Produced at High Temperature	9	3157
Agarwal, Gaurav; Speyer, Robert F. Current Change Method of Reducing Gas Sensing Using ZnO Varistors	8	2920
Agarwal, P, *see* Madore, C.	5	1561
Ahmed, Tawfik, *see* Tromans, Desmond	2	601
Ahn, C. G., *see* Kang, H. S.	10	3581
Ahn, Hyung Soo, *see* Shin, Woosuck	7	2456
Aiki, Sachiko, *see* Komaba, Shinichi	4	1126
Akagi, Hisao, *see* Maruyama, Toshiro	4	1303
Akai, Kenji, *see* Shirai, Hiroshi	5	1720
Akao, Noboru, *see* Kim, Hyunsoo	8	2818
Akashi, Hiroyuki; Tanaka, K. i.; Sekai, K. An Ionic Conductivity and Spectroscopic Study of Ionic Transport Mechanism in Fire-Retardant Polyacrylonitrile-Based Gel Electrolytes for Li Polymer Batteries	3	881
Akashi, Takaya; Nanko, Makoto; Maruyama, Toshio; Shiraishi, Yuzo; Tanabe, Jun Solid-State Reaction Kinetics of LaCrO3 from the Oxides and Determination of La3+ Diffusion Coefficient	6	2090
Akikusa, Jun, *see* Khan, Shahed U. M.	1	89
Aktik, C., *see* Belkouch, Said	7	2489
Albrecht, M. Grant; Blanchette, Craig Materials Issues with Thin Film Hydrogen Silsesquioxane Low K Dielectrics	11	4019
Alcaide, Francisco; Brillas, Enric; Cabot, Pere-Lluís; Casado, Juan Electrogeneration of Hydroperoxide Ion Using an Alkaline Fuel Cell	10	3444
Alcántara, R.; Lavela, P.; Tirado, José L.; Stoyanova, R.; Zhecheva, E. Changes in Structure and Cathode Performance with Composition and Preparation Temperature of Lithium Cobalt Nickel Oxide	3	730
Alcubilla, Ramón, *see* Llobet, Eduard	5	1772
Alessandrini, F., *see* Appetecchi, G. B.	12	4126
Alexander, K. B., *see* Pint, B. A.	6	1819
Al Hallaj, S., *see* Hong, Jong-Sung	5	1489
Alkire, Richard C., *see* Eliadis, Elias D.	4	1218
Alkire, Richard C., *see* Papapanayiotou, Demetrius	9	3016
Alkire, Richard C., *see* Papapanayiotou, Demetrius	10	3366
Allemand, J., *see* Bhattacharya, R. N.	10	3435
Allendorf, Mark D., *see* Teyssandier, Francis	6	2167
Alodan, M., *see* Garfias-Mesias, L. F.	6	2005
Alodan, Maher A.; Smyrl, William H. Confocal Laser Scanning Microscopy, Electrochemistry, and Quartz Crystal Microbalance Studies of Leveling Effects of Thiourea on Copper Deposition	3	957
Alodan, Maher A.; Smyrl, William H. Detection of Localized Corrosion of Aluminum Alloys Using Fluorescence Microscopy	5	1571
Alonso-Vante, N., *see* Salvador, P.	1	216
Alonso-Vante, N., *see* Bogdanoff, P.	2	576
Alves, Paula P. D., *see* de Andrade, Adalgisa R.	11	3839
Amano, Akio, *see* Osaka, Tetsuya	2	406
Amatucci, G., *see* Blyr, A.	1	194
Amatucci, G., *see* Du Pasquier, A.	2	472
Amazawa, Takao; Oikawa, Hideo Surface State Generation of Mo Gate Metal Oxide Semiconductor Devices Caused by Mo Penetration into Gate Oxide	4	1297
Amazawa, Takao Very Low Pressure Selective Aluminum Chemical Vapor Deposition Using Dimethylaluminum Hydride Without H2 Carrier Gas	12	4327
Amblard, J., *see* Devos, O.	12	4135
Amezawa, Koji; Yamamoto, Naoichi; Tomii, Yoichi; Ito, Yasuhiko Single-Electrode Peltier Heats of Li-Si Alloy Electrodes in LiCl-KCl Eutectic Melt	5	1986
Amezawa, Koji; Kjelstrup, Signe; Norby, Truls; Ito, Yasuhiko Protonic and Native Conduction in Sr-Substituted LaPO4 Studied by Thermoelectric Power Measurements	10	3313
Anderson, John L., *see* Guelcher, Scott A.	6	1848
Ando, Masami, *see* Sato, Fumio	9	3063
Ando, Yasunori, *see* Yokota, Katsuhiro	3	1028
Andreshak, J. C., *see* Datta, Madhav	9	3047
Angell, C. A., *see* Xu, K.	4	L70
Angermeier, D., *see* Thiandoume, C.	8	2887
Angus, John C., *see* Li, Lin-Feng	5	L85
Anthony, C. J., *see* Uren, M. J.	2	683
Antonini, A.; Bellitto, C.; Pasquali, M.; Pistoia, G. Factors Affecting the Stabilization of Mn Spinel Capacity upon Storing and Cycling at High Temperatures	8	2726
Aoki, Hitoshi, *see* Divecha, Rajesh R.	3	1052
Aoki, T., *see* Wróbel, A. M.	3	1060
Aono, Hiromichi; Supriyatno, Heru; Sadaoka, Yoshihiko Influence of Humidity on a Potentiometric CO2 Gas Sensor Using a Combined Electrolyte of Sodium Ion Conducting Glass and Stabilized Zirconia	9	2981
Aoyama, Takayuki; Suzuki, Kunihiro; Tashiro, Hiroko; Tada, Yoko; Horiuchi, Kei Nitrogen Concentration Dependence on Boron Diffusion in Thin Silicon Oxynitrides Used for Metal-Oxide-Semiconductor Devices	2	689
Aoyama, Tomonori; Yamazaki, Soichi; Imai, Keitaro Ultrathin Ta2O5 Film Capacitor with Ru Bottom Electrode	8	2961
Appetecchi, G. B.; Croce, F.; Dautzenberg, G.; Mastragostino, M.; Ronci, F.; Scrosati, B.; Soavi, F.; Zanelli, A.; Alessandrini, F.; Prosini, P. P. Composite Polymer Electrolytes with Improved Lithium Metal Electrode Interfacial Properties. I. Electrochemical Properties of Dry PEO-LiX System	12	4126
Appetecchi, G. B.; Croce, F.; Mastragostino, M.; Scrosati, B.; Soavi, F.; Zanelli, A. Composite Polymer Electrolytes with Improved Lithium Metal Electrode Interfacial Properties. II. Application in Rechargeable Batteries	12	4133
Arahori, Tadahisa, *see* Gilmore, Damien	2	521
Arai, E., *see* Zaitsu, Y.	1	258
Arai, Eisuke, *see* Ichimura, Masaya	9	3265
Aramaki, Kunitsugu, *see* Haneda, Reiko	6	1856
Aramaki, Kunitsugu, *see* Haneda, Reiko	8	2786
Arés, L., *see* Horrillo, M. C.	7	2486
Argoul, F., *see* Elezgaray, J.	6	2016
Arikado, Tsunetoshi, *see* Yagishita, Atsushi	9	3160
Arita, Yoshinobu, *see* Saito, Kunio	5	1640
Arita, Yoshinobu, *see* Ishii, Hiromu	12	4203
Aritsuka, Makoto, *see* Tasaka, Akimasa	4	1160
Arkles, Barry, *see* Faltermeier, Cheryl G.	2	676
Armand, M., *see* Zaghib, K.	9	3135
Armand, Michel, *see* Choquette, Yves	10	3500
Armstrong, B. M., *see* Baine, P. T.	5	1738
Armstrong, Timothy R.; Stevenson, Jeffry W.; Hasinska, Katarina; McCready, David E. Synthesis and Properties of Mixed Lanthanide Chromite Perovskites	12	4282
Arora, P.; Popov, B. N.; White, Ralph E. Electrochemical Investigations of Cobalt-Doped LiMn2O4 as Cathode Material for Lithium-Ion Batteries	3	807
Arora, Pankaj; White, Ralph E.; Doyle, Marc Capacity Fade Mechanisms and Side Reactions in Lithium-Ion Batteries	10	3647
Asaki, Z., *see* Fukunaka, Y.	6	1876
Ashkenasy, N., *see* Kronik, Leeor	5	1748
Ata, Masafumi, *see* Endo, Eishi	11	3757
Atanasova, P., *see* Xia, C.	1	L4
Atwater, Terrill B.; Salkind, A. J. Thermodynamic and Kinetic Study of the Li/MnO2.Bi2O3 Electrochemical Couple	3	L31
Aurbach, Doron; Weissman, I.; Yamin, H.; Elster, E. The Correlation Between Charge/Discharge Rates and Morphology, Surface Chemistry, and Performance of Li Electrodes and the Connection to Cycle Life of Practical Batteries	5	1421
Aurbach, Doron; Moshkovich, M. A Study of Lithium Deposition-Dissolution Processes in a Few Selected Electrolyte Solutions by Electrochemical Quartz Crystal Microbalance	8	2629
Aurbach, Doron; Levi, M. D.; Levi, E.; Teller, H.; Markovsky, Boris; Salitra, G.; Heider, U.; Heider, L. Common Electroanalytical Behavior of Li Intercalation Processes into Graphite and Transition Metal Oxides	9	3024
Aurbach, Doron, *see* Levi, E.	10	3440
Averill, W. F., *see* Shao-Horn, Yang	1	16
Averous, M., *see* Gautier, C.	2	512
Awakura, Yasuhiro, *see* Uekawa, Eiji	2	523
Aydinol, Mehmet K., *see* Van der Ven, Anton	6	2149
Baba, Y., *see* Monguchi, Takuo	7	2241
Babcock, K., *see* Nguyen, Paul P.	1	247
Babic, D., *see* Michaud, P. T.	11	4040
Babic, R., *see* Metikos-Hukovic, M.	12	4045
Badenes, Goncal; Rooyackers, Rita; Jones, Stephen K.; Bazley, Dave; Beanland, Richard; De Wolf, Ingrid; Deferm, Ludo Optimization of Polysilicon Encapsulated Local Oxidation of Silicon. Cavity Dimension Effects on Mechanical Stress and Gate Oxide Integrity	5	1653
Badger, S. J.; Lyon, S. B.; Turgoose, S. Modeling the Twin Platinum Probe Scanning Electrode Response	12	4074
Bae, Byeong-Soo, *see* Han, Sang-Soo	2	652
Bae, In Tae; Scherson, Daniel A. In Situ Real-Time Pt LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide Adsorbed on Platinum Particles Dispersed in High-Area Carbon in Aqueous Electrolytes	1	80
Bae, Y. W.; Gallois, B.; Wilkens, B. J.; Olsen, J. E. Deposition and Chemical Composition of Silicon Oxynitride from Methylsilazane in Ammonia and Nitrous Oxide	6	1902
Baek, Kyu-Ha, *see* Kwon, Kwang-Ho	3	1044
Bai, Chin Yuan, *see* Kai, Wu	7	2265
Baik, Young-Joon, *see* Kim, Do-Geun	6	2095
Baine, P. T.; Gay, D. L.; Armstrong, B. M.; Gamble, H. S. The Realization of Silicon-on-Insulator Utilizing Trench-before-Bond and Polish Stop Technology	5	1738
Baker, B. C., *see* West, Alan C.	9	3070
Bakker, Geoffrey L.; Hess, Dennis W. Surface Cleaning and Carbonaceous Film Removal Using High Pressure, High Temperature Water, and Water/CO2 Mixtures	1	284
Baklanov, Mikhail R.; Kondoh, E.; Donaton, R. A.; Vanhaelemeersch, S.; Maex, K. Limitation of HF-Based Chemistry for Deep-Submicron Contact Hole Cleaning on Silicides	9	3240
Balachandran, U., *see* Guan, J.	5	1780
Balakrishna, V., *see* Casady, Jeffrey B.	4	L58
Balbuena, Perla B., *see* Márquez, Andrés	10	3328
Balomenou, S., *see* Petroliekas, P. D.	4	1202
Baltus, Ruth E., *see* Shawaqfeh, Ahmad T.	8	2899
Banerjee, Suman; Cole, J. Vernon; Jensen, Klavs F. Designing Reduced-Order Models for Rapid Thermal Processing Systems	11	3974
Baranzahi, Amir; Tobias, Peter; Spetz, Anita Lloyd; Mårtensson, Per; Ekedahl, Lars-Gunnar; Lundström, Ingemar Chemical Sensors with Catalytic Metal Gates. Switching Behavior and Kinetic Phase Transitions	10	3401
Barcia, Oswaldo E.; Godinez, Jesus S.; Lamego, L. S. R.; Mattos, Oscar R.; Tribollet, Bernard Rotating Hemispherical Electrode. Accurate Expressions for the Limiting Current and the Convective Warburg Impedance	12	4189
Barkey, Dale P.; Oberholtzer, F.; Wu, Q. A Reaction-Plane Model for the Open-Circuit Potential of Copper in Aerated Copper Sulfate Solution	2	590
Barnett, Scott A., *see* Tsai, Tsepin	5	1696
Barsoukov, Evgenij; Kim, Jong Hyun; Kim, Jong Hun; Yoon, Chul Oh; Lee, Hosull Effect of Low-Temperature Conditions on Passive Layer Growth on Li Intercalation Materials. In Situ Impedance Study	8	2711
Barth, Karl W., *see* Lau, Janice E.	12	4271
Barthel, J.; Schmidt, M.; Gores, H. J.	2	L17

Author — Issue — Page

Lithium Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O'] borate(1-), a New Anodically and Cathodically Stable Salt for Electrolytes of Lithium-Ion Cells
Bartholomew, R. F., *see* Sun, Jie — 6 — 2131
Barton, Scott A. Calabrese; Murach, Bryan L.; Fuller, Thomas F.; West, Alan C. — 11 — 3783
A Methanol Sensor for Portable Direct Methanol Fuel Cells
Bar-Tow, D., *see* Peled, E. — 10 — 3482
Bashmakov, I. A., *see* Kharton, Vladislav V. — 4 — 1363
Bastidas, J. M., *see* López-Delgado, A. — 12 — 4140
Batchelor, W., *see* Bhattacharya, R. N. — 10 — 3435
Bates, J. B., *see* Neudecker, B. J. — 12 — 4148
Bates, John B., see Neudecker, Bernd J. — 12 — 4160
Bauer, Gerald L., *see* Jha, Kamal — 10 — 3521
Bayón, Rocío; Guillén, C.; Martínez, M. A.; Gutiérrez, M. T.; Herrero, J. — 8 — 2775
Preparation of Indium Hydroxy Sulfide Inx(OH)ySz Thin Films by Chemical Bath Deposition
Bazley, Dave, *see* Badenes, Goncal — 5 — 1653
Bean, J. C., *see* Muratov, V. A. — 7 — 2485
Beanland, Richard, *see* Badenes, Goncal — 5 — 1653
Behm, R. J., *see* Schmidt, Thomas J. — 3 — 925
Behm, R. J., *see* Schmidt, Thomas J. — 7 — 2354
Belhadj Tahar, N.; Savall, André — 10 — 3427
Mechanistic Aspects of Phenol Electrochemical Degradation by Oxidation on a Ta/PbO2 Anode
Belkouch, S., *see* Sayedi, S. M. — 8 — 2937
Belkouch, Said; Nguyen, T. K.; Landsberger, L. M.; Aktik, C.; Jean, C.; Kahrizi, M. — 7 — 2489
Interface States Distribution in Electrical Stressed Oxynitrided Gate-Oxide
Bellitto, C., *see* Antonini, A. — 8 — 2726
Bellucci, F., *see* De Rosa, L. — 11 — 3830
Bellur, K., *see* Sun, Jie — 6 — 2131
Bellutti, P., *see* Chen, L. — 4 — 1292
Bellutti, Pierluigi; Zorzi, N. — 7 — 2595
Impact of High-Temperature Dry Local Oxidation on Gate Oxide Quality
Benes, Zdenek, *see* Bindra, Chetna — 7 — 2377
Ben Farah, M.; Lapicque, F.; Matlosz, M. — 10 — 3550
Electrical Characterization of the Semiconducting Properties of n-TiO2
Bengtsson, Stefan, *see* Hermansson, Karin — 5 — 1645
Benson, Dave K., *see* Zhang, Ji-Guang — 6 — 1889
Benson, David K., *see* Lee, Se-Hee — 10 — 3545
Berg, R. W., *see* Aaberg, Rolf Jarle — 7 — 2244
Bergens, Steven H., *see* Lee, Christopher E. — 12 — 4182
Bergveld, H. J., *see* Kruijt, W. S. — 11 — 3764
Bergveld, H. J., *see* Notten, P. H. L. — 11 — 3774
Berlureau, T., *see* Knosp, B. — 5 — 1478
Bernard, Patrick — 2 — 456
Effects on the Positive Electrode of the Corrosion of AB5 Alloys in Nickel-Metal-Hydride Batteries
Berner, Bret, *see* Kumik, Ronald T. — 12 — 4119
Bersani, M., *see* Pizzini, S. — 1 — L8
Bertocci, U.; Frydman, J.; Gabrielli, C.; Huet, F.; Keddam, M. — 8 — 2780
Analysis of Electrochemical Noise by Power Spectral Density Applied to Corrosion Studies. Maximum Entropy Method or Fast Fourier Transform?
Beu, Laurie, *see* Karecki, Simon — 12 — 4305
Bhatt, Hemanshu D., *see* Onishi, Shigeo — 7 — 2563
Bhattacharya, R. N.; Batchelor, W.; Wiesner, H.; Hasoon, F.; Granata, J. E.; Ramanathan, K.; Alleman, J.; Keane, J.; Mason, A.; Matson, R. J.; Noufi, R. N. — 10 — 3435
14.1% CuIn1-xGaxSe2-Based Photovoltaic Cells from Electrodeposited Precursors
Bhattacharya, R. N., *see* Sebastian, P. J. — 10 — 3613
Bianco, P., *see* Boudenne, J.-L. — 8 — 2763
Bianconi, M., *see* Levy, P. — 1 — 344
Bindra, Chetna; Nalimova, Vera A.; Sklovsky, Dmitry E.; Benes, Zdenek; Fischer, John E. — 7 — 2377
Super Dense LiC2 as a High Capacity Li Intercalation Anode
Binetti, S., *see* Pizzini, S. — 1 — L8
Bjerrum, Niels J., *see* Petrushina, I. M. — 11 — 3721
Black, K. A., *see* Norga, Gerd J. — 7 — 2602
Blanchard, Ph., *see* Leblanc, Patrick — 3 — 844
Blanchard, Ph., *see* Leblanc, Patrick — 3 — 860
Blanchard, Ph., *see* Knosp, B. — 5 — 1478
Blanchette, Craig, *see* Albrecht, M. Grant — 11 — 4019
Blouin, Marco, *see* Roué, Lionel — 5 — 1624
Blyr, A.; Sigala, C.; Amatucci, G.; Guyomard, D.; Chabre, Y.; Tarascon, J.-M. — 1 — 194
Self-Discharge of LiMn2O4/C Li-Ion Cells in Their Discharged State. Understanding by Means of Three-Electrode Measurements
Blyr, A., *see* Larcher, D. — 10 — 3392
Bogdanoff, P.; Friebe, P.; Alonso-Vante, N. — 2 — 576
A New Inlet System for Differential Electrochemical Mass Spectroscopy Applied to the Photocorrosion of p-InP(111) Single Crystals
Böhni, H., *see* Büchler, M. — 2 — 378
Böhni, H., *see* Büchler, Markus — 2 — 609
Böhni, H., *see* Schmuki, Patrik — 3 — 791
Bojinov, Martin; Fabricius, Gunilla; Laitinen, Timo; Saario, Timo — 6 — 2043
The Mechanism of the Transpassive Dissolution of Chromium in Acidic Sulfate Solutions
Bonanos, N., *see* Winkler, J. — 4 — 1184
Boning, Duane S., *see* Divecha, Rajesh R. — 3 — 1052
Bönnemann, H, *see* Schmidt, Thomas J. — 3 — 925
Bönsch, P.; Wüllner, D.; Schrimpf, T.; Schlachetzki, A.; Lacmann, R. — 4 — 1273
Ultrasmooth V-Grooves in InP by Two-Step Wet Chemical Etching
Boodts, Julien F. C., *see* de Andrade, Adalgisa R. — 11 — 3839
Borgharkar, Narendra S.; Griffin, Gregory L. — 1 — 347
Toward a Unified Reaction Mechanism for Chemical Vapor Deposition of Copper
Borghesi, A., *see* Sassella, A. — 5 — 1715
Böttner, H., *see* Meincke, H. — 8 — 2806
Bottomley, Lawrence A., *see* Gole, James L. — 9 — 3284
Bottomley, Lawrence A., *see* Scott, Leonard L. — 12 — 4062
Bottomley, Lawrence A., *see* Ding, Youzhen — 12 — 4057
Bottomley, Lawrence A., *see* Scott, Leonard L. — 12 — 4062
Boudenne, J.-L.; Cerclier, O.; Bianco, P. — 8 — 2763
Voltammetric Studies of the Behavior of Carbon Black during Phenol Oxidation on Ti/Pt Electrodes
Bouet, V.; Fransaer, Jan L. D.; Huet, F.; Maurin, G.; Celis, J. P. — 2 — 436
Electrochemical Resistance Noise during Composite Plating
Bouteville, A., *see* Imhoff, L. — 5 — 1672
Bowmer, T., *see* Du Pasquier, A. — 2 — 472
Bradbury, Donald, *see* Divecha, Rajesh R. — 3 — 1052
Bradley, Jean-Claude; Crawford, Jeffrey; McGee, Michael; Stephens, Samuel G. — 3 — L45
A Contactless Method for the Directed Formation of Submicrometer Copper Wires
Brambilla, M., *see* Polignano, Maria Luisa — 5 — 1632
Brandt, C. D., *see* Casady, Jeffrey B. — 4 — L58
Branz, Howard M., *see* Lee, Se-Hee — 10 — 3545
Breslin, C. B., *see* Mansfeld, F. — 8 — 2792
Bressers, Peter M. M. C.; Meulenkamp, Eric A. — 7 — 2225
The Electrochromic Behavior of Indium Tin Oxide in Propylene Carbonate Solutions
Breton, G., *see* Gautier, C. — 2 — 512
Brett, Christopher M. A., *see* Maleki, Hossein — 3 — 721
Brezmes, Jesús, *see* Llobet, Eduard — 5 — 1772
Brillas, Enric; Sauleda, Roser; Casado, Juan — 3 — 759
Degradation of 4-Chlorophenol by Anodic Oxidation, Electro-Fenton, Photoelectro-Fenton, and Peroxi-Coagulation Processes
Brillas, Enric, *see* Alcaide, Francisco — 10 — 3444
Brisard, Gessie, *see* Choquette, Yves — 10 — 3500
Britz, P., *see* Schmidt, Thomas J. — 3 — 925
Broada, S., *see* Petroiekas, P. D. — 5 — 1469
Brossard, Louis, *see* Dabo, Pierre — 9 — 3150
Brouillette, Dany, *see* Choquette, Yves — 10 — 3500
Brousse, T.; Retoux, R.; Herterich, U.; Schleich, Donald M. — 1 — 1
Thin-Film Crystalline SnO2-Lithium Electrodes
Brown, April S., *see* Kropewnicki, Thomas J. — 5 — L88
Brown, G. A., *see* Jackson, J. C. — 3 — 1033
Brown, G. A., *see* Chen, L. — 4 — 1292
Brown, Robert A., *see* Sinno, Talid — 1 — 302
Bruckenstein, Stanley; Fensore, Alexander T.; Hillman, A. Robert — 2 — L24
Time-Resolved Mono-anion, Di-anion, and Solvent Transfers into a Poly(vinylferrocene)-Modified Electrode
Bruneel, Jean-Luc, *see* Rey, Isabelle — 9 — 3034
Brunson, K. M., *see* Uren, M. J. — 2 — 683
Bryden, Kenneth J.; Ying, Jackie Y. — 10 — 3339
Pulsed Electrodeposition Synthesis and Hydrogen Absorption Properties of Nanostructured Palladium-Iron Alloy Films
Buchhold, R.; Nakladal, A.; Gerlach, G.; Sahre, K.; Müller, M.; Eichhorn, K.-J.; Herold, M.; Gauglitz, G. — 11 — 4012
A Study on the Microphysical Mechanisms of Adsorption in Polyimide Layers for Microelectronic Applications
Büchler, M.; Schmuki, P.; Böhni, H.; Stenberg, T.; Mäntylä, T. — 2 — 378
Comparison of the Semiconductive Properties of Sputter-Deposited Iron Oxides with the Passive Film on Iron
Büchler, Markus; Schmuki, P.; Böhni, H. — 2 — 609
Iron Passivity in Borate Buffer. Formation of a Deposit Layer and Its Influence on the Semiconducting Properties
Buda, Manuela; Smeltbrugge, E.; Geluk, E.-J.; Karouta, F.; Acket, G. A.; van de Roer, T. G.; Kaufmann, L. M. F. — 3 — 1076
Controlled Anodic Oxidation for High Precision Etch Depth in AlGaAs III-V Semiconductor Structures
Budaguan, B. G.; Sherchenkov, A. A.; Stryahilev, D. A.; Sazonov, A. Y.; Radoselsky, A. G.; Chernomordic, V. D.; Popov, A. A.; Metselaar, J. W. — 7 — 2508
Amorphous Hydrogenated Silicon Films for Solar Cell Application Obtained with 55 kHz Plasma Enhanced Chemical Vapor Deposition
Buhrman, R. A., *see* Ellis, K. A. — 8 — 2068
Buiel, Edward; Dahn, J. R. — 6 — 1977
Reduction of the Irreversible Capacity in Hard-Carbon Anode Materials Prepared from Sucrose for Li-Ion Batteries
Buiel, Edward; George, A. E.; Dahn, Jeffrey R. — 7 — 2252
On the Reduction of Lithium Insertion Capacity in Hard-Carbon Anode Materials with Increasing Heat-Treatment Temperature
Burrell, R. E., *see* Djokic, S. S. — 5 — 1426
Busnaina, Ahmed A., *see* Chopra, Dinesh — 4 — L60
Butruille, Jean-Rémi, *see* Lopez, Sébastien — 3 — 823
Butruille, Jean-Rémi, *see* Lopez, Sébastien — 3 — 829
Butt, D. P., *see* Lillard, R. Scott — 8 — 2718
Butt, D. P., *see* Hill, M. A. — 8 — 2799
Butter, K., *see* Kooij, E. S. — 4 — 1232
Byer, R. L., *see* Wu, Yew Sermon — 1 — 386
Byun, Jeong Soo; Lee, Byung Hak; Park, Ji-Soo; Sohn, Dong-Kyun; Choi, S. J.; Kim, J. J. — 9 — 3228
Formation of High Conductivity WSix Layer and Its Characterization as a Gate Electrode
Byun, Jeong Soo, *see* Park, Ji-Soo — 10 — 3585
Byun, Jeong Soo; Choi, Sang Jun; Kim, Jae Jeong; Choi, Jin-Tae; Swenberg, Johanes; Achutharaman, Raman — 11 — 3941
Selective Titanium Silicide Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor Deposition and Film Characterization
Cabot, P. L.; Centelles, M.; Segarra, L.; Casado, Juan — 5 — 1502
Application of Hydrogen Diffusion Anodes in Electrolytic Processes Using Methanol-Water Mixtures
Cabot, Pere-Lluis, *see* Alcaide, Francisco — 10 — 3444
Cacciato, A.; Vleeshouwers, S.; Evseev, S. — 2 — 701
Fast-Feedback Iron Contamination Monitoring Using Surface Photovoltage Measurements
Cadieu, F. J., *see* Wang, J. J. — 7 — 2512
Cahen, David, *see* Varsano, Francesca — 12 — 4212
Cahoon, J. R., *see* Speers, Edward A. — 6 — 1812
Cairns, Elton J., *see* Perry, Mike L. — 1 — 5
Cairns, Elton J., *see* Rougier, A. — 9 — 2975
Calixto, M. E., *see* Sebastian, P. J. — 10 — 3613
Cambon, M., *see* Gautier, C. — 2 — 512
Cammarata, V., *see* Wang, L. — 8 — 2648
Campbell, S., *see* Rao, Nagaraja P. — 6 — 2051
Campos, J., *see* Nair, M. T. S. — 6 — 2113
Cano, E., *see* López-Delgado, A. — 12 — 4140
Cao, Lihui; Li, Binghui; Zhao, Jian H. — 10 — 3609
Etching of SiC Using Inductively Coupled Plasma
Cappein, F., *see* Petrushina, I. M. — 11 — 3721
Capuano, G. A., *see* Wang, Hong — 3 — 780
Carim, A. H., *see* Kephart, J. S. — 9 — 3253
Carlberg, J. C.; Inganäs, O. — 11 — 3810
Fast Optical Spectroscopy of the Electrochemical Doping of Poly(3,4-ethylenedioxythiophene)
Carlin, Richard T., *see* Fuller, Joan — 1 — 24
Carlin, Richard T.; De Long, Hugh C.; Fuller, Joan; Trulove, P. C. — 5 — 1598
Microelectrode Evaluation of Transition Metal-Aluminum Alloy Electrodepositions in Chloroaluminate Ionic Liquids
Carlsson, Jan-Otto, *see* Martensson, Per — 8 — 2926
Carra, Sergio, *see* Cavallotti, Carlo — 12 — 4332
Carter, W. B., *see* Hendrick, M. R. — 11 — 3986
Carter-Coman, Carrie, *see* Kropewnicki, Thomas J. — 5 — L88
Cartier, E., *see* Uren, M. J. — 2 — 683
Casado, Juan, *see* Brillas, Enric — 3 — 759
Casado, Juan, *see* Cabot, P. L. — 5 — 1502
Casado, Juan, *see* Alcaide, Francisco — 10 — 3444
Casady, Jeffrey B.; Mani, S. S.; Siergiej, R. R.; Urban, W.; Balakrishna, V.; Sanger, P. A.; Brandt, C. D. — 4 — L58
Surface Roughness of Reactive Ion Etched 4H-SiC in SF6/O2 and CHF3/H2/O2 Plasmas
Casellato, Umberto, *see* Zotti, Gianni — 2 — 385
Cattarin, Sandro; Chazalviel, J.-N.; Da Fonseca, C.; Ozanam, F.; Peter, L. M.; Schlichthörl, G.; Stumper, J. — 2 — 498
In Situ Characterization of the p-Si/NH4F Interface during Dissolution in the Current Oscillations Regime
Cavallotti, Carlo; Masi, Maurizio;

Author	Issue	Page
Carra, Sergio Modeling Plasma-Assisted Deposition of Diamond-Like Carbon Films	12	4332
Cazzaniga, F., *see* Polignano, Maria Luisa	5	1632
Cecchi, Joseph L., *see* Stein, David J.	9	3190
Ceder, Gerbrand, *see* Van der Ven, Anton	5	2149
Celik, S. Muhsin; Öztürk, Mehmet C. Low Thermal Budget In Situ Surface Cleaning for Selective Silicon Epitaxy	10	3602
Celis, J. P., *see* Bouet, V.	2	436
Centeles, M., *see* Cabot, P. L.	5	1502
Cercier, O., *see* Boudenne, J.-L.	8	2763
Chabre, Y., *see* Blyr, A.	1	194
Chabre, Y., *see* Sac-Epée, N.	5	1434
Chae, Y. K.; Shimogaki, Y.; Komiyama, H. The Role of Gas-Phase Reactions during Chemical Vapor Deposition of Copper from (hfac)Cu(tmvs)	12	4226
Chai, B., *see* MacKenzie, J. D.	7	2581
Chainet, E., *see* Trejo, G.	12	4090
Chan, L., *see* Ng, H. T.	9	3301
Chan, Y., *see* Fahmer, Wolfgang R.	5	1786
Chang, Eric C., *see* Divecha, Rajesh R.	3	1052
Chang, Hong-Young, *see* Yun, Seok-Min	7	2576
Chang, I-Shun; Hon, Min-Hsiung Influence of Deposition Parameters on the Texture of Chemical Vapor Deposited Tungsten Films by a WF6/H2/Ar Gas Source	9	3235
Chang, Jian-Sheng, *see* Wen, Ten-Chin	10	3450
Chapman, Thomas W., *see* Lee, Jongwook	9	3042
Charar, S., *see* Gautier, C.	2	512
Chausse, A., *see* Legrand, L.	1	110
Chazalviel, J.-N., *see* Erné, Ben H.	2	447
Chazalviel, J.-N., *see* Cattarin, Sandro	2	498
Chazalviel, J.-N.; da Fonseca, C.; Ozanam, F. In Situ Infrared Study of the Oscillating Anodic Dissolution of Silicon in Fluoride Electrolytes	3	964
Chazalviel, J.-N., *see* Wehrspohn, R. B.	8	2958
Chekina, O. G.; Keer, L. M.; Liang, H. Wear-Contact Problems and Modeling of Chemical Mechanical Polishing	6	2100
Chen, C.; Husurianto, S.; Lu, X.; Koretsky, M. D. The Effect of Processing Conditions on Crystal Orientation and Structure in ZnS:Mn Thin Films	1	226
Chen, C., *see* Mansfeld, F.	8	2792
Chen, George; Clayton, C. R. The Influence of Sulfate-Reducing Bacteria on the Passivity of Type 317L Austenitic Stainless Steel	6	1914
Chen, Jiann-Chung, *see* Ho, Kuo-Chuan	7	2334
Chen, L.; Kang, C.-S.; Oralkan, O.; Dumin, David J.; Brown, G. A.; Bellutti, P. The Search for Cathode and Anode Traps in High-Voltage Stressed Silicon Oxides	4	1292
Chen, Li, *see* Wang, J. J.	7	2512
Chen, Liquan, *see* Liu, Weifeng	1	59
Chen, Liquan, *see* Wang, Zhaoxiang	10	3346
Chen, M. C., *see* Wang, M. T.	7	2538
Chen, M. C., *see* Wang, M. T.	12	4206
Chen, Mao-Chieh, *see* Chuang, Jui-Chang	9	3170
Chen, Mao-Chieh, *see* Chuang, Jui-Chang	11	4029
Chen, Mao-Chieh, *see* Chuang, Jui-Chang	12	4290
Chen, Muguo, *see* Leventis, Nicholas	4	L55
Chen, Shenhao, *see* Wu, Xiaojuan	2	517
Chen, Shenhao, *see* Wang, Chao	7	2214
Chen, Tai-Ju, *see* Yeh, Ching-Fa	1	252
Chen, Wen-Chang, *see* Lin, Sung-Hwa	12	4256
Chen, Wen-Ru, *see* Xiao, Z. X.	4	1360
Chen, Y.; Singh, Rajendra; Li, G.; Haertling, G. H. A Study of Rapid Photothermal Annealing of Sputtered Lead Lanthanum Zirconia Titanate Thin Films	12	4317
Cheng, C. C., *see* Rao, Nagaraja P.	6	2051
Cheng, Chin-Chang; West, Alan C. Flow Modulation as a Means of Studying Leveling Agents	2	560
Cheng, Chin-Chang, *see* West, Alan C.	9	3070
Cheng, Huang-Chung; Lai, Wen-Koi; Liu, Han-Wen; Juang, Miin-Horng Effects of CoSi2 on p+ Polysilicon Gates Fabricated by BF2+ Implantation into CoSi/Amorphous Si Bilayers	10	3590
Cheng, Tsung-Tien, *see* Wen, Ten-Chin	10	3450
Cheng, X.; Li, G.; Kneer, E. A.; Vermeire, B.; Parks, H. G.; Raghavan, Srini; Jeon, J. S. Electrochemical Impedance Spectroscopy of Copper Deposition on Silicon from Dilute Hydrofluoric Acid Solutions	1	352
Chernomordic, V. D., *see* Budaguan, B. G.	7	2508
Chi, Qijin; Tatsuma, Tetsu; Ozaki, Masahide; Sotomura, Tadashi; Oyama, Noboru Electrochemical Behavior and Surface Morphologic Changes of Copper Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ EQCM and Phase Measurement Interferometric Microscopy	7	2369
Chiang, Yet-Ming; Jang, Young-Il; Wang, Haifeng; Huang, B.; Sadoway, D. R.; Ye, Peixiang Synthesis of LiCoO2 by Decomposition and Intercalation of Hydroxides	3	887
Childress, J. R., *see* Wang, J. J.	7	2512
Childress, J. R., *see* Lee, J. W.	7	2585
Childress, J. R., *see* Jung, K. B.	11	4025
Cho, Dong-Il Dan, *see* Kim, Byungwook	7	2499
Cho, H. J.; Kim, H. J. Lowering of Leakage Current Density of (Ba,Sr)TiO3 Thin Films by Pulse Injection Deposition	11	3884
Cho, Hag-Ju, *see* Lee, Jong Myeong	3	1066
Cho, Jaephil; Kim, Geunbae; Lim, H.; Liu, Meilin Electrochemical Properties of GeS2-Based Glass-Polymer Composite Electrolytes for Lithium-Ion Batteries	6	1949
Cho, K. G.; Kumar, D.; Jones, S. L.; Lee, D. G.; Holloway, P. H.; Singh, Rajiv K. Growth and Characterization of Eu:Y2O3 Thin-Film Phosphors on Silicon and Diamond-Coated Silicon Substrates	10	3456
Cho, Kyehyun; Abdulsalam, Mohammed I.; Pickering, Howard W. The Effect of Electrolyte Properties on the Mechanism of Crevice Corrosion in Pure Iron	6	1862
Cho, Sung Hee; Yoo, Jae Soo; Lee, Jong Duk A New Synthetic Method to Prepare Spherical Phosphors for Emissive Screen Applications	3	1017
Choi, Chi-Kyu, *see* Yun, Seok-Min	7	2576
Choi, Jin-Tae, *see* Byun, Jeong Soo	11	3941
Choi, Kang-Sik; Han, Chul-Hi Low Temperature Copper Etching Using an Inductively Coupled Plasma with Ultraviolet Light Irradiation	3	L37
Choi, L. S., *see* Lee, H. S.	8	2813
Choi, S. J., *see* Byun, Jeong Soo	9	3228
Choi, Sang Jun, *see* Byun, Jeong Soo	11	3941
Chopart, J. P., *see* Devos, O.	2	401
Chopart, J.-P., *see* Devos, O.	12	4135
Chopra, Dinesh; Suni, Ian Ivar; Busnaina, Ahmed A. Cu Dissolution from Si(111) into an SC-1 Process Solution	4	L60
Chopra, Dinesh; Suni, Ian Ivar An Optical Method for Monitoring Metal Contamination during Aqueous Processing of Silicon Wafers	5	1688
Choquette, Yves; Brisard, Gessie; Parent, Michel; Brouillette, Dany; Perron, Gérald; Desnoyers, Jacques E.; Armand, Michel; Gravel, Denis; Slougui, Nacer Sulfamides and Glymes as Aprotic Solvents for Lithium Batteries	10	3500
Chottiner, Gary, *see* Li, Lin-Feng	5	L85
Chow, T. P., *see* Hu, Y. Z.	11	3919
Christensen, Paul A., *see* Reeve, R. W.	10	3463
Christiaens, L., *see* Müller, Robert	2	541
Chu, Ann-Kuo, *see* Chuang, M. J.	3	1020
Chu, C. Winnie; Deen, M. Jamal; Hill, Ross H. Sensors for Detecting Sub-ppm NO2 Using Photochemically Produced Amorphous Tungsten Oxide	12	4219
Chu, S. N. G. Elastic Bending of Semiconductor Wafer Revisited and Comments on Stoney's Equation	10	3621
Chua, Chee Tee; Sarkar, G.; Hu, X. In Situ Characterization of Methylsilsesquioxane Curing	11	4007
Chuang, Jui-Chang; Chen, Mao-Chieh Passivation of Cu by Sputter-Deposited Ta and Reactively Sputter-Deposited Ta-Nitride Layers	9	3170
Chuang, Jui-Chang; Chen, Mao-Chieh Effects of Thermal N2 Annealing on Passivation Capability of Sputtered Ta(-N) Layers Against Cu Oxidation	11	4029
Chuang, Jui-Chang; Tu, Shuo-Lun; Chen, Mao-Chieh Sputtered Cr and Reactively Sputtered CrNx Serving as Barrier Layers Against Copper Diffusion	12	4290
Chuang, M. J.; Hsieh, K. Y.; Chu, Ann-Kuo High-Temperature Wet Chemical Etching of Ta2O5 in NaOH-Based Solutions for Fabricating Antiresonant Reflecting Optical Waveguides	3	1020
Chun, Jang H.; Ra, Keuk H. The Phase-Shift Method for the Frumkin Adsorption Isotherms at the Pd/H2SO4 and KOH Solution Interfaces	11	3794
Chung, C.-W., *see* Noll, J. D.	10	3320
Chung, James E., *see* Divecha, Rajesh R.	3	1052
Ciureanu, Mariana; Goldstein, Sandu; Mateescu, Mircea Alexandru Direct Electron Transfer for Hemoglobin in Surfactant Films Cast on Carbon Electrodes	2	533
Claeys, C.; Simoen, E. Noise as a Diagnostic Tool for Semiconductor Material and Device Characterization	6	2058
Claeys, C., *see* Czerwinski, A.	6	2107
Claeys, C., *see* Litovchenko, V. G.	8	2964
Clayton, C. R., *see* Chen, George	6	1914
Cojocaru, Claudiu D., *see* Maleki, Hossein	3	721
Cole, J. Vernon, *see* Banerjee, Suman	11	3974
Coleman, R. G., *see* McCarthy, A. J.	2	408
Colgan, E. G., *see* Gambino, Jeff P.	4	1384
Colletti, Lisa P.; Flowers, Billy H., Jr.; Stickney, J. L. Formation of Thin Films of CdTe, CdSe, and CdS by Electrochemical Atomic Layer Epitaxy	5	1442
Colletti, Lisa P.; Stickney, J. L. Optimization of the Growth of CdTe Thin Films Formed by Electrochemical Atomic Layer Epitaxy in an Automated Deposition System	10	3594
Comninellis, Ch., *see* Tsiplakides, D.	3	905
Constantine, C., *see* Lee, J. W.	11	4036
Conway, Brian E., *see* Liu, T.-C.	6	1882
Cook, Lee M., *see* Shen, James J.	12	4240
Cooper, Evan L.; Coury, Louis A., Jr. Mass Transport in Sonovoltammetry with Evidence of Hydrodynamic Modulation from Ultrasound	6	1994
Corbett, J. M., *see* Duncan, M. J.	11	3746
Cornett, Kenneth D., *see* Ramakrishnan, E. S.	1	358
Correig, Xavier, *see* Llobet, Eduard	5	1772
Correra, Luigi, *see* Levy, P.	1	344
Costamagna, Paola; Honegger, Kaspar Modeling of Solid Oxide Heat Exchanger Integrated Stacks and Simulation at High Fuel Utilization	11	3995
Costas, Wesley D., *see* Shen, James J.	12	4240
Coté, R.; Lalande, G.; Guay, Daniel; Dodelet, J.-P.; Dénès, G. Influence of Nitrogen-Containing Precursors on the Electrocatalytic Activity of Heat-Treated Fe(OH)2 on Carbon Black for O2 Reduction	7	2411
Courjal, P., *see* Larcher, D.	10	3392
Courtney, Clay H.; Smith, Bradley C.; Lamb, H. Henry Remote Plasma-Enhanced Chemical Vapor Deposition of SiO2 Using Ar/N2O and SiH4	11	3957
Courtney, Ian A., *see* Mao, Ou	12	4195
Coury, Louis A., Jr., *see* Cooper, Evan L.	6	1994
Coustier, F.; Passerini, S.; Smyrl, William H. A 400 mAh/g Aerogel-like V2O5 Cathode for Rechargeable Lithium Batteries	5	L73
Craig, Steven A., *see* Heinisch, Holger H.	4	1351
Crawford, Jeffrey, *see* Bradley, Jean-Claude	3	L45
Creager, S. E., *see* Sumner, J. J.	1	107
Croce, F., *see* Appetecchi, G. B.	12	4126
Croce, F., *see* Appetecchi, G. B.	12	4133
Cubitt, R., *see* Wilson, R. W.	5	1454
Cui, Q., *see* Zheng, D. W.	5	1668
Cunningham, B., *see* Gambino, Jeff P.	4	1384
Czerwinski, A.; Simoen, E.; Claeys, C.; Klima, K.; Tomaszewski, D.; Gibki, J.; Katcki, J. Optimized Diode Analysis of Electrical Silicon Substrate Properties	6	2107
Dabo, Pierre; Brossard, Louis; Ménard, Hugues Hydrogen Evolution on Thin-Film Deposited Electrodes Prepared by a Plasma-Based Technique	9	3150
Da Cunha Belo, M., *see* Hakiki, N. E.	11	3821
Da Fonseca, C., *see* Cattarin, Sandro	2	498
da Fonseca, C., *see* Chazalviel, J.-N.	3	964
Dahmen, K. H., *see* Wang, J. J.	7	2512
Dahn, J. R., *see* Xing, Weibing	1	62
Dahn, J. R., *see* Buiel, Edward	6	1977
Dahn, J. R., *see* Kötschau, I. M.	8	2672
Dahn, Jeff R., *see* Mao, Ou	12	4195
Dahn, Jeffrey R., *see* Schilling, Oliver	2	569
Dahn, Jeffrey R.; Zheng, Tao; Thomas, C. L. Structure and Electrochemistry of Li2CrxMn2-xO4 for 1.0<x<1.5	3	851
Dahn, Jeffrey R., *see* Buiel, Edward	7	2252
Dai, Jinxiang; Li, Sam F. Y.; Gao, Zhiqiang; Siow, Kok-Siong Low-Temperature Synthesized LiV3O8 as a Cathode Material for Rechargeable Lithium Batteries	9	3057
Dai, Y.; Wang, Y.; Eshkenazi, V.; Peled, E.; Greenbaum, Steve G. Lithium-7 Nuclear Magnetic Resonance Investigation of Lithium Insertion in Hard Carbon	4	1179
Darling, Robert; Newman, John Modeling Side Reactions in Composite LiyMn2O4 Electrodes	3	990
Daroux, M. L., *see* Mukerjee, S.	2	466
Date, Junichi, *see* Ohki, Atushi	10	3560
Datta, Madhav; Andreshak, J. C.; Romankiw, L. T.; Vega, L. F. Surface Finishing of High Speed Print Bands. I. A Prototype Tool for Electrochemical Microfinishing and Character Rounding of Print Bands	9	3047
Datta, Madhav; Romankiw, L. T. Surface Finishing of High Speed Print Bands. II. An Electrochemical Process for Microfinishing of Hardened Fe-13Cr Stainless Steel	9	3052

Author	Issue	Page
Dautzenberg, G., see Appetecchi, G. B.	12	4126
Davazoglou, Dimitris; Vamvakas, Vassilis Em.; Vahlas, Constantin Thermodynamic Study, Composition, and Microstructure of Low-Pressure Chemical Vapor Deposited Silicon Dioxide Films Grown from TEOS/N2O Mixtures	4	1310
Davazoglou, Dimitris; Georgouleas, K. Low Pressure Chemically Vapor Deposited WO3 Thin Films for Integrated Gas Sensor Applications	4	1346
Davenport, A. J., see Schmuki, Patrik	3	791
Davidson, M. R., see Lee, J. W.	7	2461
de Andrade, Adalgisa R.; Donate, Paulo M.; Alves, Paula P. D.; Fidellis, Carlos H. V.; Boodts, Julien F. C. Ethanol Electro-oxidation in Ruthenium-Oxide-Coated Titanium Electrodes	11	3839
Deb, Satyen, see Lee, Se-Hee	10	3545
Debaud, S., see Mischler, S.	3	750
Decker, Franco, see Varsano, Francesca	12	4212
de Croon, M. H. J. M., see Weerts, W. L. M.	4	1318
Deen, M. H., see Kolev, P.	9	3258
Deen, M. Jamal, see Chu, C. Winnie	12	4219
Deferm, Ludo, see Badenes, Goncal	5	1653
De Gendt, Stefan; Knotter, D. M.; Kenis, K.; Mertens, P. W.; Heyns, M. M. Impact of Iron Contamination and Roughness Generated in Ammonia Hydrogen Peroxide Mixtures (SC1) on 5 nm Gate Oxides	7	2589
De Jonghe, Lutgard C., see Ferry, Anders	5	1586
De Laet, J., see Schram, T.	8	2733
Delahaye-Vidal, A., see Sac-Epée, N.	5	1434
Delahaye-Vidal, A., see Grugeon-Dewaele, S.	10	3358
Delarosa, M., see Lau, Janice E.	12	4271
Delgado, J., see De Vidts, P.	11	3874
Deliang Yang, J., see Desprez, Philippe	1	165
Deligianni, Hariklia, see Papapanayiotou, Demetrius	9	3016
De Long, Hugh C., see Carlin, Richard T.	5	1598
Dénès, G., see Coté, R.	7	2411
Deng, Charles Z.; Pynenburg, Rory A. J.; Tsai, K. C. Improved Porous Mixture of Molybdenum Nitride and Tantalum Oxide as a Charge Storage Material	4	L61
Deng, Charles Z.; Dignam, Michael J. Sputtered Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction Electrocatalysts. I. Physical and Electrochemical Characterization	10	3507
Deng, Charles Z.; Dignam, Michael J. Sputtered Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction Electrocatalysts. II. Electrochemical Stability and Proposed Mechanism	10	3513
Deng, Jiaqi, see Yang, Ru	7	2231
De Rosa, L.; Monetta, T.; Mitton, D. B.; Bellucci, F. Monitoring Degradation of Single and Multilayer Organic Coatings. I. Absorption and Transport of Water: Theoretical Analysis and Methods	11	3830
DesMarteau, Darryl D., see Sumner, J. J.	1	107
Desnoyers, Jacques E., see Choquette, Yves	10	3500
Desprez, Philippe; Deliang Yang, J.; Matlosz, Michael; West, Alan C. Estimation of Front Velocity in Electrodeposition onto Highly Resistive Substrates	1	165
Desu, Seshu B., see Onishi, Shigeo	7	2563
De Vidts, P.; Delgado, J.; Wu, B.; See, D.; Kosanovich, K.; White, Ralph E. A Nonisothermal Nickel-Hydrogen Cell Model	11	3874
Devos, O.; Olivier, A.; Chopart, J. P.; Aaboubi, O.; Maurin, G. Magnetic Field Effects on Nickel Electrodeposition	2	401
Devos, O.; Aaboubi, O.; Chopart, J.-P.; Merienne, E.; Olivier, A.; Amblard, J. Magnetic Field Effects on Nickel Electrodeposition. II. A Steady-State and Dynamic Electrochemical Study	12	4135
De Wolf, Ingrid, see Badenes, Goncal	5	1653
d'Heurle, F. M., see Mangelinck, D.	7	2530
Dignam, Michael J., see Deng, Charles Z.	10	3507
Dignam, Michael J., see Deng, Charles Z.	10	3513
Ding, Youzhen, see Scott, Leonard L.	12	4052
Ding, Youzhen; Scott, Leonard L.; Stalder, Sloane M.; Kohl, Paul A.; Winnick, Jack; Bottomley, Lawrence A. Electrosynthesis of Sodium Hydrosulfite. II. The Effect of Cathode Material	12	4057
Disma, F., see Du Pasquier, A.	2	472
Divecha, Rajesh R.; Stine, Brian E.; Ouma, Dennis O.; Chang, Eric C.; Boning, Duane S.; Chung, James E.; Nakagawa, O. S.; Aoki, Hitoshi; Ray, Gary; Bradbury, Donald; Oh, Soo-Young A Novel Statistical Metrology Framework for Identifying Sources of Variation in Oxide Chemical Mechanical Polishing	3	1052
Divisek, J.; Eikerling, M.; Mazin, V.; Schmitz, H.; Stimming, U.; Volfkovich, Yu. M. A Study of Capillary Porous Structure and Sorption Properties of Nafion Proton-Exchange Membranes Swollen in Water	8	2677
Djokic, S. S.; Burrell, R. E. Behavior of Silver in Physiological Solutions	5	1426
Dodelet, J.-P., see Coté, R.	7	2411
Dodelet, Jean-Pol, see Faubert, G.	9	2985
Doeff, Marca M., see Ferry, Anders	5	1586
Doi, Minoru, see Naito, Shizuo	7	2471
Domenicucci, A. G., see Gambino, Jeff P.	4	1384
Donate, Paulo M., see de Andrade, Adalgisa R.	11	3839
Donston, R. A., see Baklanov, Mikhail R.	9	3240
Donghi, M., see Pizzini, S.	1	L8
Donovan, S. M., see MacKenzie, J. D.	7	2581
Doolittle, W. Alan, see Kropewnicki, Thomas J.	5	L88
Dornberger, E., see Kissinger, Gudrun	5	L75
Dornberger, Erich, see Sinno, Talid	1	302
Dorris, S. E., see Guan, J.	5	1780
Doyle, C. M., see Vreeke, Mark S.	10	3668
Doyle, Marc, see Arora, Pankaj	10	3647
Drake, Javit A.; Radke, Clayton J.; Newman, John Profiles and Performance Curves in a Parallel-Plate Reactor for the Electrochemical Fluorination of Hydrocarbons	5	1578
Drescher, K., see Kuhmann, J. F.	6	2138
Du, Honghua, see Manessis, Dionissios	4	1355
Dubkov, V., see Zimina, Tatiana	7	2236
Dudel, Frank P., see Gole, James L.	9	3284
Dull, D., see Mansfeld, F.	6	2792
Dultsev, F. N.; Nenasheva, L. A.; Vasilyeva, L. L. Irregular Surface and Porous Structure of SiO2 Films Deposited at Low Temperature and Low Pressure	7	2569
Dumin, David J., see Jackson, J. C.	3	1033
Dumin, David J., see Chen, L.	4	1292
Duncan, M. J.; Leroux, F.; Corbett, J. M.; Nazar, L. F. Todorokite as a Li Insertion Cathode. Comparison of a Large Tunnel Framework "MnO2" Structure with Its Related Layered Structures	11	3746
Dunham, Scott T., see Navi, Mitra	7	2545
Dunlap, R. A., see Xing, Weibing	1	62
Dunlap, R. A., see Mao, Ou	12	4195
Dunlop, Hugh M., see Lopez, Sébastien	3	823
Dunlop, Hugh M., see Lopez, Sébastien	3	829
Du Pasquier, A.; Disma, F.; Bowmer, T.; Gozdz, A. S.; Amatucci, G.; Tarascon, J.-M. Differential Scanning Calorimetry Study of the Reactivity of Carbon Anodes in Plastic Li-Ion Batteries	2	472
du Pasquier, A., see Larcher, D.	10	3392
Duquette, D. J., see Kallingal, C. G.	6	2074
Durbha, Madhav; Orazem, Mark E. Current Distribution on a Rotating Disk Electrode below the Mass-Transfer-Limited Current. Correction for Finite Schmidt Number and Determination of Surface Charge Distribution	6	1940
Durning, Christopher J., see Kelly, James J.	2	492
Dyer, Thomas W. Moisture Instability of Borophosphosilicate Glass and the Effects of Thermal Treatment	11	3950
Ebersberger, Bernd, see Elbel, Norbert	5	1659
Ebling, D. G., see Meincke, H.	8	2806
Echeverria, F.; Skeldon, P.; Thompson, G. E.; Wood, G. C.; Habazaki, H.; Shimizu, K. Direct Observation of Anodic Films Formed on Gallium Phosphide in Aqueous Tungstate Electrolyte	9	3011
Eckert, Werner Electrochemical Identification of the Hydrogen Sulfide System Using a pH2S (glass/Ag, Ag2S) Electrode	1	77
Economou, Demetre J., see Midha, Vikas	10	3569
Efremov, A. A., see Litovchenko, V. G.	8	2964
Egashira, Makoto; Shimizu, Yasuhiro; Takao, Yuji; Ono, Masaki; Sasada, Seiichi Decomposition of Trichloroethylene by Microwave-Induced Plasma Generated from SiC Whiskers	1	229
Egashira, Y., see Takeuchi, T.	4	1277
Egashira, Yasuyuki, see Takahashi, Takahiro	3	1070
Eguchi, Koichi, see Mishima, Y.	3	1004
Eguchi, Koichi, see Ohtaki, Michitaka	4	1165
Ehlert, A., see Gräf, D.	1	275
Eichhorn, K.-J., see Buchhold, R.	11	4012
Eikerling, M., see Divisek, J.	8	2677
Eikerling, M.; Kharkats, Yu. I.; Kornyshev, A. A.; Volfkovich, Yu. M. Phenomenological Theory of Electro-osmotic Effect and Water Management in Polymer Electrolyte Proton-Conducting Membranes	8	2684
Ein-Eli, Y., see Shao-Horn, Yang	1	16
Ein-Eli, Yair; McDevitt, Stephen F.; Laura, Richard The Superiority of Asymmetric Alkyl Methyl Carbonates	1	L1
Ein-Eli, Yair; Lu, Sharon H.; Howard, W. F., Jr.; Mukerjee, Sanjeev; McBreen, J.; Vaughey, John T.; Thackeray, Michael M. LiMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New Class of 5 V Cathode Materials for Li Batteries. I. Electrochemical, Structural, and Spectroscopic Studies	4	1238
Ein-Eli, Yair; Lu, Sharon H.; Rzeznik, Maria A.; Mukerjee, Sanjeev; Yang, Xiao Q.; McBreen, J. LiCuxMn2-xO4 Spinels (0.1 ≤ x ≤ 0.5): A New Class of Cathode Materials for Li Batteries. II. In Situ Measurements	10	3383
Ekedahl, Lars-Gunnar, see Baranzahi, Amir	10	3401
Elbel, Norbert; Neureither, Bernhard; Ebersberger, Bernd; Lahnor, Peter Tungsten Chemical-Mechanical Polishing	5	1659
Elder, Scott H., see Windisch, Charles F., Jr.	4	1211
Elezgaray, J.; Léger, C.; Argoul, F. Linear Stability Analysis of Unsteady Galvanostatic Electrodeposition in the Two-Dimensional Diffusion-Limited Regime	6	2016
Eliadis, Elias D.; Alkire, Richard C. In Situ Studies of Cu Deposition in the Presence of Quaternary Ammonium Salts	4	1218
Ellis, Arthur B., see Winder, Edmund J.	7	2475
Ellis, K. A.; Buhrman, R. A. Boron Diffusion in Silicon Oxides and Oxynitrides	6	2068
Elster, E., see Aurbach, Doron	5	1421
Elwenspoek, M., see Gui, Chengqun	6	2198
Emori, Masaomi, see Watanabe, Masahiro	4	1137
Enami, Y., see Iwata, Tomoo	3	931
Endisch, Denis, see Lau, Janice E.	12	4271
Endo, Akira; Wada, Sachiko; Wen, Ching-Ju; Komiyama, Hiroshi; Yamada, Koichi Low Overvoltage Mechanism of High Ionic Conducting Cathode for Solid Oxide Fuel Cell	3	L36
Endo, Eishi; Ata, Masafumi; Tanaka, Koichi; Sekai, Koji Electron Spin Resonance Study of the Electrochemical Reduction of Electrolyte Solutions for Lithium Secondary Batteries	11	3757
Endo, N., see Ogura, K.	11	3801
Engelhard, M. H., see Windisch, Charles F., Jr.	4	1211
Engelmann, G. E.; Ziegler, J. C.; Kolb, D. M. Nanofabrication of Small Palladium Clusters on Au(111) Electrodes with a Scanning Tunnel Microscope	3	L33
Epstein, Yefim, see Yoon, Giwan	5	1679
Emé, Ben H.; Stchakovsky, M.; Ozanam, F.; Chazalviel, J.-N. Surface Composition of n-GaAs Cathodes during Hydrogen Evolution Characterized by In Situ Ultraviolet-Visible Ellipsometry and In Situ Infrared Spectroscopy	2	447
Eshkenazi, V., see Dai, Y.	4	1179
Evans, Dennis H., see Niazimbetova, Zukhra	8	2768
Evans, Edward A., see Li, Lin-Feng	5	L85
Evans, James W., see Song, Li	7	2327
Evseev, S., see Caccisto, A.	2	701
Fabre, Bruno; Marrec, Philippe; Simonet, Jacques Electroactive Materials Containing Macrocyclic Pseudo-Crown Ether Cavities Electroformed from a Solid-State Electropolymerization Reaction	12	4110
Fabricius, Gunilla, see Bojinov, Martin	6	2043
Fahrner, Wolfgang R.; Löffler, S.; Chan, Y.; Kwong, S.; Man, K. Determination of the Trap Density in Amorphous Silicon by Quasi-static Capacitance-Voltage Measurements	5	1786
Falk, Torgny; Svensson, J.-E.; Johansson, L.-G. The Role of Carbon Dioxide in the Atmospheric Corrosion of Zinc. A Laboratory Study	1	39
Falk, Torgny; Svensson, J.-E.; Johansson, L.-G. The Influence of CO2 and NaCl on the Atmospheric Corrosion of Zinc. A Laboratory Study	9	2993
Faltermeier, Cheryl G.; Goldberg, Cindy; Jones, Michael; Upham, Allan; Knorr, Andreas; Ivanova, Ana; Peterson, Gregory; Kaloyeros, Alain E.; Arkles, Barry The Effects of Processing Parameters in the Low-Temperature Chemical Vapor Deposition of Titanium Nitride from Tetraiodotitanium	2	676
Fanciulli, M., see Kuhmann, J. F.	6	2138
Fantini, M. C. A., see Faria, I. C.	1	235
Fantini, M. C. A., see Lourenco, A.	2	706
Farber, Jeffrey, see Shen, James J.	12	4240
Faria, I. C.; Kleinke, M.; Gorenstein, Annette; Fantini, M. C. A.; Tabacniks, M. H. Toward Efficient Electrochromic NiOx Films. A Study of Microstructure, Morphology, and Stoichiometry of Radio-Frequency Sputtered Films	1	235
Farrington, Gregory C., see Liu, W.	2	459
Farrington, Gregory C., see Xu, Jun J.	3	744
Faubert, G.; Guay, D.; Dodelet, Jean-Pol	9	2985

Author	Issue	Page
Pt Inclusion Compounds as Oxygen Reduction Catalysts in Polymer-Electrolyte Fuel Cells		
Fauteux, Denis, *see* Mori, Mitsuhiro	7	2340
Fedkiw, Peter S., *see* Hicks, Michael T.	11	3728
Fefer, E., *see* Kronik, Leeor	5	1748
Feigelson, R. S., *see* Wu, Yew Sermon	1	366
Fejer, M. M., *see* Wu, Yew Sermon	1	366
Fensore, Alexander T., *see* Bruckenstein, Stanley	2	L24
Ferreira, M. G. S., *see* Hakiki, N. E.	11	3821
Ferry, Anders; Doeff, Marca M.; De Jonghe, Lutgard C. Transport Property and Raman Spectroscopic Studies of the Polymer Electrolyte System P(EO)n-NaTFSI	5	1586
Fidelis, Carlos H. V., *see* de Andrade, Adalgisa R.	11	3839
Fikry, W. F., *see* Kirah, Kh.	1	332
Fischer, John E., *see* Bindra, Chetna	7	2377
Fischer, T. E., *see* Muratov, V. A.	7	2465
Fischer, Traugott E., *see* Hah, S. R.	5	1708
Fisher, Ellen R., *see* McCurdy, Patrick R.	9	3271
Fitzgibbon, Gregory, *see* Tsang, Yuk L.	5	1677
Flätgen, Georg, *see* Mazouz, Nadia	7	2404
Fleig, Jürgen; Maier, Joachim A Finite Element Study on the Grain Boundary Impedance of Different Microstructures	6	2081
Flink, C., *see* Istratov, Andrei A.	11	3889
Flink, C., *see* Hieslmair, Henry	12	4259
Flis, J., *see* Zakroczymski, Tadeusz	4	1142
Florit, M. I.; Posadas, D.; Molina, F. V. Effect of Temperature on the Voltammetric Behavior of Poly-o-toluidine	10	3530
Flowers, Billy H., Jr., *see* Colletti, Lisa P.	5	1442
Fradette, N.; Marsan, Benoit Surface Studies of CuxCo3-xO4 Electrodes for the Electrocatalysis of Oxygen Evolution	7	2320
Frank, Arthur J., *see* Mao, D.	1	121
Frankel, G. S., *see* Schmutz, P.	7	2285
Frankel, G. S., *see* Schmutz, P.	7	2295
Frankel, Gerald S. Pitting Corrosion of Metals. A Review of the Critical Factors	6	2186
Frankel, Gerald S., *see* Sehgal, A.	8	2834
Frankel, Gerald, *see* Zhao, Jun	7	2258
Franklin, Thomas C.; Sankara Narayanan, T. S. N.; Jackson, M. The Effect of Several Benzyl Alcohols and Electron Bridging Anions on the Current Efficiency for Deposition of Cadmium	3	801
Fransaer, Jan L. D., *see* Bouet, V.	2	436
Frech, Roger, *see* Huang, Weiwei	3	765
Frech, Roger, *see* Zhang, Xulong	3	847
Friebe, P., *see* Bogdanoff, P.	2	576
Frydman, J., *see* Bertocci, U.	8	2780
Fujihana, Kenichiro, *see* Komaba, Shinichi	4	1126
Fujii, A., *see* Ogura, Kotaro	10	3351
Fujii, Osamu, *see* Yagishita, Atsushi	9	3160
Fujimoto, S.; Yamada, T.; Shibata, T. Improvement of Pitting Corrosion Resistance of Type 304 Stainless Steel by Modification of Passive Film with Ultraviolet Light Irradiation	5	L79
Fujioka, H., *see* Monguchi, Takuo	7	2241
Fujishima, A., *see* Yano, T.	6	1870
Fujishima, A., *see* Sun, R. D.	10	3378
Fujishima, Akira, *see* Hirota, Kouske	5	L62
Fujishima, Akira, *see* Yoshiki, Hajime	5	1430
Fukami, T., *see* Sheng, J.	5	1592
Fukuda, H., *see* Zaman, H.	2	565
Fukui, Keisuke, *see* Kondo, Kazuo	3	840
Fukui, Keisuke, *see* Kondo, Kazuo	9	3007
Fukunaka, Y.; Okano, K.; Tomii, Y.; Asaki, Z.; Kuribayashi, K. Electrodeposition of Copper under Microgravity Conditions	6	1876
Fukunaka, Y.; Nakamura, Y.; Konishi, Y. Ionic Mass-Transfer Rates Associated with Natural Convection along a Plane Vertical Anode Measured by Two-Wavelength Holographic Interferometry	11	3814
Fukuoka, Yuko, *see* Uchida, Makoto	11	3708
Fuller, Joan; Carlin, Richard T.; Osteryoung, Robert A.; Koranaios, Peter; Mantz, Robert Anodization and Speciation of Magnesium in Chloride-Rich Room Temperature Ionic Liquids	1	24
Fuller, Joan, *see* Carlin, Richard T.	5	1596
Fuller, Thomas F., *see* Barton, Scott A. Calabrese	11	3783
Funabiki, Atsushi; Inaba, Minoru; Ogumi, Zempachi; Yuasa, Shin-ichi; Otsuji, Junhiko; Tasaka, Akimasa Impedance Study on the Electrochemical Lithium Intercalation into Natural Graphite Powder	1	172
Furlanetto, Ferdinando, *see* Musiani, Marco M.	2	555
Furuya, Nagakazu, *see* Shibata, Masami	2	595
Furuya, Nagakazu, *see* Shibata, Masami	7	2348
Gabrielli, C., *see* Bertocci, U.	8	2780
Gabrielli, Claude; Keddam, M.; Khalil, A.; Maurin, G.; Perrot, H.; Rosset, R.; Zidoune, M. Quartz Crystal Microbalance Investigation of Electrochemical Calcium Carbonate Scaling	7	2386
Gadad, Shailesh; Harris, Thomas M. Oxygen Incorporation during the Electrodeposition of Ni, Fe, and Ni-Fe Alloys	11	3699
Galiois, B. M., *see* Muratov, V. A.	7	2465
Galiois, B., *see* Bae, Y. W.	6	1902
Gambino, Jeff P.; Colgan, E. G.; Domenicucci, A. G.; Cunningham, B. The Thermal Stability of CoSi2 on Polycrystalline Silicon: The Effect of Silicon Grain Size and Metal Thickness	4	1384
Gamble, H. S., *see* Baine, P. T.	5	1738
Gamo, Takaharu, *see* Taniguchi, Noboru	5	1744
Gao, Wei, *see* Lee, Se-Hee	10	3545
Gao, Zhiqiang, *see* Dai, Jinxiang	9	3057
Garaventta, G., *see* Visintin, A.	12	4169
Garcia, M. E.; Webb, E., III; Garofalini, Stephen H. Molecular Dynamics Simulation of V2O5/Li2SiO3 Interface	6	2155
Garcia, V. M., *see* Nair, M. T. S.	6	2113
Gardeniers, J. G. E., *see* Gui, Chengqun	6	2198
Garfias-Mesias, L. F., *see* James, P. I.	4	L64
Garfias-Mesias, L. F.; Alodan, M.; James, P. I.; Smyrl, William H. Determination of Precursor Sites for Pitting Corrosion of Polycrystalline Titanium by Using Different Techniques	6	2005
Garfias-Mesias, L. F., *see* Shi, Guangda	6	2011
Garofalini, Stephen H., *see* Hensley, D. A.	2	669
Garofalini, Stephen H., *see* Garcia, M. E.	6	2155
Garvin, C., *see* Park, Hyun Mog	12	4247
Gasteiger, H. A., *see* Schmidt, Thomas J.	3	925
Gasteiger, H. A., *see* Schmidt, Thomas J.	7	2354
Gauckler, L. J., *see* Gödickemeier, Martin	2	414
Gaudett, M. A., *see* Kolman, David G.	6	1829
Gauglitz, G., *see* Buchhold, R.	11	4012
Gauthier, M., *see* Zaghib, K.	9	3135
Gautier, C.; Breton, G.; Nouaoura, M.; Cambon, M.; Charar, S.; Averous, M. Chemical and Electrochemical Passivation of PbSe Thin Layers Grown by Molecular Beam Epitaxy	2	512
Gavrilova, T. A., *see* Gorokhov, E. B.	6	2120
Gay, D. L., *see* Baine, P. T.	5	1738
Geiuk, E.-J., *see* Buda, Manuela	3	1076
George, A. E., *see* Buiel, Edward	7	2252
Georgouleas, K., *see* Davazoglou, Dimitris	4	1346
Gérand, B., *see* Larcher, D.	10	3392
Gerlach, G., *see* Buchhold, R.	11	4012
Getino, J., *see* Horrillo, M. C.	7	2486
Gibki, J., *see* Czerwinski, A.	6	2107
Gill, William N., *see* Lakshmanan, Satish K.	2	694
Gilliman, E. S., *see* Wang, J. J.	7	2512
Gilmore, Damien; Arahori, Tadahisa; Ito, Makoto; Murakami, Hiroki; Miki, Shin-ichro The Impact of Graphite Furnace Parts on Radial Impurity Distribution in Czochralski-Grown Single-Crystal Silicon	2	621
Glidle, A., *see* Wilson, R. W.	5	1454
Goda, Shin-ichi, *see* Kuwabata, Susumu	5	1415
Gödickemeier, Martin; Gauckler, L. J. Engineering of Solid Oxide Fuel Cells with Ceria-Based Electrolytes	2	414
Godinez, Jesus S., *see* Barcia, Oswaldo E.	12	4189
Gojkovic, S. Lj.; Gupta, S.; Savinell, Robert F. Heat-Treated Iron(III) Tetramethoxyphenyl Porphyrin Supported on High-Area Carbon as an Electrocatalyst for Oxygen Reduction. I. Characterization of the Electrocatalyst	10	3493
Gojkovic, S. Lj.; Zecevic, S. K.; Savinell, Robert F. O2 Reduction on an Ink-Type Rotating Disk Electrode Using Pt Supported on High-Area Carbons	11	3713
Gokita, Masanori, *see* Okada, Tatsuhiro	3	815
Goldberg, Cindy, *see* Faltermeier, Cheryl G.	2	676
Goldstein, Sandu, *see* Ciureanu, Mariana	2	533
Gole, James L.; Dudel, Frank P.; Seals, Lenward; Reiger, Melissa; Kohl, Paul; Bottomley, Lawrence A. On the Correlation of Aqueous and Nonaqueous In Situ and Ex Situ Photoluminescent Emissions from Porous Silicon. Evidence for Surface-Bound Emitters	9	3284
Golodnitsky, D., *see* Peled, E.	10	3482
Gomes, Walter P., *see* Vereecken, P. M.	9	3075
Gonzalez, Ernesto R., *see* Perez, Joelma	7	2307
Goodenough, J. B., *see* Padhi, A. K.	5	1518
Goodenough, John B., *see* Yamada, Atsuo	3	737
Goodenough, John B., *see* Huang, Kaqin	9	3220
Gordon, L. A., *see* Wu, Yew Sermon	1	366
Gorenstein, A., *see* Lourenco, A.	2	706
Gorenstein, Annette, *see* Faria, I. C.	1	235
Gorer, S., *see* Kronik, Leeor	5	1748
Gores, H. J., *see* Barthel, J.	2	L17
Gorochov, O., *see* Thiandoume, C.	8	2887
Gorokhov, E. B.; Prinz, V. Ya.; Noskov, A. G.; Gavrilova, T. A. A Novel Nanolithographic Concept Using Crack-Assisted Patterning and Self-Alignment Technology	6	2120
Gösele, U., *see* Jessensky, O.	11	3735
Gozdz, A. S., *see* Du Pasquier, A.	2	472
Gräf, D., *see* Kissinger, Gudrun	5	L75
Gräf, D.; Suhren, M.; Lambert, U.; Schmolke, R.; Ehlert, A.; von Ammon, W.; Wagner, P. Characterization of Crystal Quality by Crystal Originated Particle Delineation and the Impact on the Silicon Wafer Surface	1	275
Granata, J. E., *see* Bhattacharya, R. N.	10	3435
Gravel, Denis, *see* Choquette, Yves	10	3500
Green, T. A.; Russell, A. E.; Roy, Sudipta The Development of a Stable Citrate Electrolyte for the Electrodeposition of Copper-Nickel Alloys	3	875
Greenbaum, Steve G., *see* Dai, Y.	4	1179
Grey, Francois, *see* Hermansson, Karin	5	1645
Griffin, Gregory L., *see* Borgharkar, Narendra S.	1	347
Griffiths, Stewart K.; Nilson, Robert H. Optimum Conditions for Composites Fiber Coating by Chemical Vapor Infiltration	4	1263
Griguli, Stephan, *see* Nitzsche, Petra	5	1755
Grill, A.; Patel, V.; Jahnes, C. Novel Low k Dielectrics Based on Diamondlike Carbon Materials	5	1649
Grimard, D. S., *see* Park, Hyun Mog	12	4247
Grizzle, J. W., *see* Park, Hyun Mog	12	4247
Grondin, Joseph, *see* Ray, Isabelle	9	3034
Gros-Jean, Mickaël; Herino, R.; Lincot, D. Incorporation of Cadmium Sulfide into Nanoporous Silicon by Sequential Chemical Deposition from Solution	7	2448
Grove, C. M., *see* Loboda, M. J.	8	2861
Grugeon-Dewaele, S.; Laruelle, S.; Torcheux, L.; Tarascon, J.-M.; Delahaye-Vidal, A. Optimization of the Positive Active Material Capacity in Lead- Acid Cells Through Control of the Basic Lead Sulfate Precursor	10	3358
Gu, W. B., *see* Wang, C. Y.	10	3407
Gu, W. B.; Wang, C. Y.; Liaw, B. Y. Micro-Macroscopic Coupled Modeling of Batteries and Fuel Cells. II. Application to Nickel-Cadmium and Nickel-Metal Hydride Cells	10	3418
Guan, J.; Dorris, S. E.; Balachandran, U.; Liu, M. The Effects of Dopants and A:B Site Nonstoichiometry on Properties of Perovskite-Type Proton Conductors	5	1780
Guay, D., *see* Faubert, G.	9	2985
Guay, Daniel, *see* Roué, Lionel	8	1624
Guay, Daniel, *see* Coté, R.	7	2411
Guelcher, Scott A.; Solomentsev, Yuri E.; Sides, Paul J.; Anderson, John L. Thermocapillary Phenomena and Bubble Coalescence during Electrolytic Gas Evolution	6	1848
Guerriero, Paolo, *see* Musiani, Marco M.	2	549
Guerriero, Paolo, *see* Musiani, Marco M.	2	555
Gui, Chengqun; Elwenspoek, M.; Gardeniers, J. G. E.; Lambeck, P. V. Present and Future Role of Chemical Mechanical Polishing in Wafer Bonding	6	2198
Guilinger, Terry, *see* Stein, David J.	9	3190
Guillemoles, Jean Francois, *see* Varsano, Francesca	12	4212
Guillén, C., *see* Bayón, Rocío	8	2775
Guindet, J., *see* Vernoux, Philippe	10	3487
Gupta, S., *see* Gojkovic, S. Lj.	10	3493
Gutiérrez, F. J., *see* Horrillo, M. C.	7	2486
Gutiérrez, M. T., *see* Bayón, Rocío	8	2775
Gutmann, Ronald J., *see* Hu, Y. Z.	11	3919
Guyomard, D., *see* Blyr, A.	1	194
Guzei, Ilia, *see* Niazimbetova, Zukhra	8	2768
Haas, Otto, *see* Spahr, Michael E.	2	421
Haas, Otto, *see* Spahr, Michael E.	4	1113
Habazaki, H., *see* Echeverria, F.	9	3011
Habuka, Hitoshi; Tsunoda, Hitoshi; Otsuka, Toru Change in Microroughness of a Silicon Surface during In Situ Cleaning Using HF and HCl Gases	12	4264
Hackney, S. A., *see* Shao-Horn, Y.	2	582
Hackney, Steven A., *see* Shao-Horn, Yang	1	16
Haertling, G. H., *see* Chen, Y.	12	4317
Hagiwara, Katsunori, *see* Takahashi, Takahiro	3	1070
Hah, S. R., Fischer, Traugott E. Tribochemical Polishing of Silicon Nitride	5	1708
Hakiki, N. E.; Da Cunha Belo, M.; Simoes, A. M. P.; Ferreira, M. G. S. Semiconducting Properties of Passive Films Formed on Stainless Steels. Influence of the Alloying Elements	11	3821
Hamnett, A., *see* Reeve, R. W.	10	3463
Hampikian, Janet M., *see* Hendrick, M. R.	11	3986

Author Issue Page

Han, Chul-Hi, *see* Choi, Kang-Sik 3 L37
Han, Chul-Hi, *see* Lee, Ga-Won 8 2883
Han, Il-Keoun, *see* Lee, Sangbong B. 11 3935
Han, Sang-Soo; Jun, Byung-Hyuk; No, Kwangsoo; Bae, Byeong-Soo 2 652
Preparation of a-SiNx Thin Film with Low Hydrogen Content by Inductively Coupled Plasma Enhanced Chemical Vapor Deposition
Haneda, Hajime, *see* Ikuma, Yasuro 8 2910
Haneda, Reiko; Aramaki, Kunitsugu 6 1856
Protection of Copper Corrosion by an Ultrathin Two-Dimensional Polymer Film of Alkanethiol Monolayer
Haneda, Reiko; Aramaki, Kunitsugu 8 2786
Protective Films on Copper by Multistep Modification of an Alkanethiol Monolayer with Chlorosilanes and Alkanediol
Hao, Yi-Long, *see* Xiao, Z. X. 4 1360
Hara, Nobuyoshi, *see* Kim, Hyunsoo 8 2818
Hara, Tatsumori, *see* Ioroi, Tsutomu 8 1999
Hara, Tohru; Sato, Masayuki; Sakiyama, Keizo 4 L67
Fluorocarbon Polymer Deposited by Inductively Coupled Plasma Oxide Etching
Haran, Bala S.; Popov, B. N.; White, Ralph E. 9 3000
Studies on Electroless Cobalt Coatings for Microencapsulation of Hydrogen Storage Alloys
Haran, Bala S.; Popov, B. N.; White, Ralph E. 12 4082
Theoretical Analysis of Metal Hydride Electrodes. Studies on Equilibrium Potential and Exchange Current Density
Hardy, T., *see* Kolev, P. 9 3258
Harris, Stephen J.; Kiefer, John; Zhang, Qi; Schoene, Andrew; Lee, Kyu-Wang 9 3203
Reaction Mechanism for the Thermal Decomposition of BCl3/H2 Gas Mixtures
Harris, Thomas M., *see* Gadad, Shailesh 11 3699
Hårsta, Anders, *see* Schuisky, Mikael 12 4234
Hasegawa, S., *see* Milovzorov, Dmitri 10 3615
Hashimoto, K., *see* Yano, T. 6 1870
Hashimoto, K., *see* Matsuo, Yoshiaki 9 3067
Hashimoto, K., *see* Sun, R. D. 10 3378
Hashimoto, Kazuhito, *see* Hirota, Kouske 5 L82
Hashimoto, Kazuhito, *see* Yoshiki, Hajime 5 1430
Hashimoto, Kenji, *see* Tago, Teruoki 7 2516
Hasinska, Katarina, *see* Armstrong, Timothy R. 12 4282
Hasoon, F., *see* Bhattacharya, R. N. 10 3435
Hatanaka, Y., *see* Wróbel, A. M. 3 1060
Hatanaka, Yoshinori, *see* Wróbel, Aleksander M. 8 2866
Hattori, Takeshi; Osaka, Tsutomu; Okamoto, Akira; Saga, Koichiro; Kuniyasu, Hitoshi 9 3278
Contamination Removal by Single-Wafer Spin Cleaning with Repetitive Use of Ozonized Water and Dilute HF
Hayafuji, N.; Yamamoto, Y.; Ishida, T.; Sato, K. 8 2951
Reliability Improvement of AlInAs/GaInAs High Electron Mobility Transistors by Fluorine Incorporation Control
Hayashi, Eriko, *see* Kono, Michiyuki 5 1521
Hayashi, T., *see* Monguchi, Takuo 7 2241
Haydock, S. A., *see* Reeve, R. W. 10 3463
Hebert, Kurt R., *see* Zhou, Ying 9 3100
Hedemann, H., *see* Istratov, Andrei A. 11 3889
Hegde, Rama I.; Maiti, Bikas; Rai, Raghaw S.; Reid, K. G.; Tobin, Philip J. 1 L13
Surface and Interface Roughness of Ultrathin Nitric Oxide Oxynitride Gate Dielectric
Heider, L., *see* Aurbach, Doron 9 3024
Heider, U., *see* Aurbach, Doron 9 3024
Heikonen, Jussi M.; Ploehn, Harry J.; White, Ralph E. 6 1840
The Effect of Particle Size on the Discharge Performance of a Nickel-Metal Hydride Cell
Heinisch, Holger H.; Homung, Brian E.; Linkous, Ralph B.; Craig, Steven A.; Mirabedini, Mohammad R.; Wortman, J. J. 4 1351
Impact of Floating Gate Dopant Concentration and Interpoly Dielectric Processing on Tunnel Dielectric Reliability
Heinze, J., *see* Müller, Robert 2 641
Heinze, J., *see* Müller, Robert 4 1227
Heinze, J., *see* Meincke, H. 8 2806
Heiser, T., *see* Istratov, Andrei A. 11 3889
Helbig, R., *see* Sadowski, H. 10 3556
Hellberg, P.-E., *see* Mangelinck, D. 7 2530
Helms, C. R., *see* Park, Heungsoo 5 1724
Hendrick, M. R.; Hampikian, Janet M.; Carter, W. B. 11 3986
Alumina Coatings Applied via Combustion Chemical Vapor Deposition and Their Effects on the Oxidation of a Ni-Base Chromia Former
Hendriksen, Peter Vang, *see* Winkler, J. 4 1184
Hensley, D. A.; Garofalini, Stephen H. 2 669
Scanning Force Microscopy Investigation of Surface Forces at the Tungsten Oxide/Lithium Borate Interface
Heo, Du-Chang, *see* Lee, Sung-Woo 8 2900
Hepel, Maria 1 124
The Electrocatalytic Oxidation of Methanol at Finely Dispersed Platinum Nanoparticles in Polypyrrole Films
Hepel, Maria, *see* Shiyanovskaya, I. 3 1023
Hepel, Maria, *see* Shiyanovskaya, Irina 11 3981
Herino, R., *see* Gros-Jean, Mickaël 7 2448
Hermansson, Karin; Grey, Francois; Bengtsson, Stefan; Södervall, Ulf 5 1645
Ultraclean Si/Si Interface Formation by Surface Preparation and Direct Bonding in Ultrahigh Vacuum
Herold, M., *see* Buchhold, R. 11 4012
Herrero, J., *see* Bayón, Rocío 8 2775
Herterich, U., *see* Brousse, T. 1 1
Herzog, Karin, *see* Nitzsche, Petra 5 1755
Hess, Dennis W., *see* Bakker, Geoffrey L. 1 284
Hess, Dennis W., *see* Kaluri, Sita R. 2 662
Hetherington, Dale, *see* Stein, David J. 9 3190
Heyns, M. M., *see* De Gendt, Stefan 7 2589
Hicks, Michael T.; Fedkiw, Peter S. 11 3728
Kolbe Electrolysis of Acetic Acid in a Polymer Electrolyte Membrane Reactor
Hieslmair, H., *see* Istratov, Andrei A. 11 3889
Hieslmair, Henry; Istratov, A. A.; McHugo, S. A.; Flink, C.; Weber, E. R. 12 4259
Analysis of Iron Precipitation in Silicon as a Basis for Gettering Simulations
Higashikawa, Taichi, *see* Osaka, Tetsuya 7 2419
Higuchi, Shunichi, *see* Zaghib, Karim 1 210
Hikosaka, Tetsuya, *see* Shin, Woosuck 7 2456
Hilgendorff, M.; Spanhel, Lubomir; Rothenhäusler, Ch.; Müller, G. 10 3632
From ZnO Colloids to Nanocrystalline Highly Conductive Films
Hilger, J. P., *see* Steyer, Ph. 9 3183
Hill, M. A.; Butt, D. P.; Lillard, R. S. 8 2799
The Passivity and Breakdown of Beryllium in Aqueous Solutions
Hill, Ross H., *see* Chu, C. Winnie 12 4219
Hillman, A. R., *see* Wilson, R. W. 5 1454
Hillman, A. Robert, *see* Bruckenstein, Stanley 2 L24
Hillman, A. Robert, *see* Ramirez, Silvana 8 2640
Hirai, Kiyohito, *see* Yokota, Katsuhiro 3 1028
Hirato, Tetsuji, *see* Uekawa, Eiji 2 523
Hirota, Kouske; Tryk, Donald A.; Hashimoto, Kazuhito; Okawa, Masafumi; Fujishima, Akira 5 L82
Photoelectrochemical Reduction of CO2 at High Current Densities at p-InP Electrodes
Ho, Kuo-Chuan; Chen, Jiann-Chung 7 2334
Spectroelectrochemical Studies of Indium Hexacyanoferrate Electrodes Prepared by the Sacrificial Anode Method
Hodes, G., *see* Kronik, Leeor 5 1748
Holloway, P. H., *see* Lee, J. W. 7 2461
Holloway, P. H., *see* MacKenzie, J. D. 7 2581
Holloway, P. H., *see* Cho, K. G. 10 3456
Homma, Takayuki; Suzuki, Mitsuru; Osaka, Tetsuya 1 134
Gradient Control of Magnetic Properties in Electroless-Deposited CoNiP Thin Films
Hon, Min-Hsiung, *see* Chang, I-Shun 9 3235
Honda, Miho, *see* Ishihara, Tatsumi 9 3177
Honegger, Kaspar, *see* Costamagna, Paola 11 3995
Hong, Jeong-Oh, *see* Yoo, Han-Ill 3 1008
Hong, Jong-Sung; Maleki, H.; Al Hallaj, S.; Redey, L.; Selman, J. Robert 5 1489
Electrochemical-Calorimetric Studies of Lithium-Ion Cells
Hong, Seong Jae; Mehta, Karun; Virkar, Anil V. 2 638
Effect of Microstructure and Composition on Ionic Conductivity of Rare-Earth Oxide-Doped Ceria
Horasawa, T., *see* Matsuzaki, K. 12 4296
Horii, Noritaka, *see* Itoh, Ken-ichi 8 2895
Horita, Teruhisa; Yamaji, Katsuhiko; Ishikawa, Masahiko; Sakai, Natsuko; Yokokawa, Harumi; Kawada, Tatsuya; Kato, Tohru 9 3196
Active Sites Imaging for Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia Interface by Secondary-Ion Mass Spectrometry
Horiuchi, K., *see* Monguchi, Takuo 7 2241
Horiuchi, Kei, *see* Aoyama, Takayuki 2 689
Hornung, Brian E., *see* Heinisch, Holger H. 4 1351
Horrillo, M. C.; Getino, J.; Arés, L.; Robla, J. I.; Sayago, I.; Gutiérrez, F. J. 7 2486
Measurements of VOCs with a Semiconductor Electronic Nose
Hoshikawa, Keigo, *see* Abe, Keisei 1 319
Hoshikawa, Keigo, *see* Maeda, Susumu 7 2548
Hoshino, Katsuyoshi; Tokutomi, Kentaro; Iwata, Yoshiki; Kokado, Hiroshi 2 711
Enhancement in Chemical Interaction at Conducting Polymers/n-Si Interfaces by Their Electroreduction
Hosokawa, Kouichi, *see* Yokota, Katsuhiro 3 1028
Howard, W. F., Jr., *see* Shao-Horn, Yang 1 16
Howard, W. F., Jr., *see* Ein-Eli, Yair 4 1238
Howng, Wei-Yean, *see* Ramakrishnan, E. S. 1 358
Hsieh, K. Y., *see* Chuang, M. J. 3 1020
Hsu, Jyh-Ping; Ting, Kuo-Chiang 4 1088
Current Efficiency of an Ion-Selective Membrane: Effect of Fixed Charge Distribution
Hsu, Jyh-Ping, *see* Lin, Sung-Hwa 12 4256
Hsu, Wei-Yung, *see* Lu, Jiong-Ping 2 L21
Hu, X., *see* Chua, Chee Tee 11 4007
Hu, Y. Z.; Gutmann, Ronald J.; Chow, T. P. 11 3919
Silicon Nitride Chemical Mechanical Polishing Mechanisms
Huang, B., *see* Chiang, Yet-Ming 3 867
Huang, Biying, *see* Wang, Zhaoxiang 10 3348
Huang, Keqin; Lee, Hee Y.; Goodenough, John B. 9 3220
Sr- and Ni-Doped LaCoO3 and LaFeO3 Perovskites. New Cathode Materials for Solid-Oxide Fuel Cells
Huang, Weiwei; Frech, Roger 3 765
In Situ Raman Studies of Graphite Surface Structures during Lithium Electrochemical Intercalation
Huang, Xuejie, *see* Liu, Weifeng 1 59
Huang, Xuejie, *see* Wang, Zhaoxiang 10 3348
Huang, Y. P., *see* Zheng, D. W. 5 1668
Huet, F., *see* Bouet, V. 2 436
Huet, F., *see* Bertocci, U. 8 2780
Hughes, H. L., *see* Afanas'ev, V. V. 9 3187
Hummel, Rolf E., *see* Singh, Rajiv K. 11 3963
Hurst, A. T., Jr., *see* Jung, K. B. 11 4025
Hussey, Charles L., *see* Tierney, Brian J. 9 3110
Husurianto, S., *see* Chen, C. 1 226
Hwang, Cheol Seong, *see* Lee, Jong Myeong 3 1066
Hwang, Y., *see* Onishi, Shigeo 7 2563
Ibrahim, M. A., *see* Mao, D. 1 121
Ichikawa, Akihiro, *see* Watanabe, Takeshi 12 4252
Ichimura, Masaya; Tajiri, Hirotaka; Ito, Tomonao; Arai, Eisuke 9 3265
Temperature Dependence of Carrier Recombination Lifetime in Si Wafers
Idzu, Tetsuo, *see* Kuwabata, Susumu 8 2707
Igarashi, Hiroshi, *see* Toda, Takako 12 4185
Iida, Masamori, *see* Katsuki, Nobuyuki 7 2358
Iizuka, Atsushi, *see* Osaka, Tetsuya 7 2419
Iizuka, Masatoshi 1 84
Diffusion Coefficients of Cerium and Gadolinium in Molten LiCl-KCl
Ikeda, Katsuhiko, *see* Otsuka-Yao-Matsuo, Shinya 4 1406
Ikuma, Yasuro; Kamiya, Michiyo; Okumura, Naoya; Sakaguchi, Isao; Haneda, Hajime; Sawada, Yutaka 8 2910
Oxygen Diffusion in Single-Crystal In2O3 and Tin-Doped In2O3
Imai, Keitaro, *see* Aoyama, Tomonori 8 2961
Imhof, Roman; Novák, Petr 4 1081
In Situ Investigation of the Electrochemical Reduction of Carbonate Electrolyte Solutions at Graphite Electrodes
Imhoff, L.; Bouteville, A.; Remy, J. C. 5 1672
Kinetics of the Formation of Titanium Nitride Layers by Rapid Thermal Low Pressure Chemical Vapor Deposition from TiCl4-NH3-H2
Inaba, Hideaki, *see* Onuma, Shigenori 3 920
Inaba, Hideaki, *see* Mori, Masashi 4 1374
Inaba, Hideaki, *see* Onuma, Shigenori 9 3117
Inaba, Minoru, *see* Funabiki, Atsushi 1 172
Inganäs, O., *see* Carlberg, J. C. 11 3810
Inokuma, T., *see* Milovzorov, Dmitri 10 3615
Inoue, Hiroshi; Yoshida, Yasuki; Ogata, Setsuro; Shimamune, Takayuki; Iwakura, Chiaki 1 138
Effect of Pd Black Deposits on Successive Hydrogenation of 4-Methylstyrene with Active Hydrogen Passing Through a Pd Sheet Electrode
Inoue, Takao; Sano, Mitsuru 11 3704
An Investigation of Capacity Fading of Manganese Spinels Stored at Elevated Temperature
Ioroi, Tsutomu; Hara, Tatsumori; Uchimoto, Yoshiharu; Ogumi, Zempachi; Takehara, Zen-ichiro 6 1999
Preparation of Perovskite-Type La1-xSrxMnO3 Films by Vapor-Phase Processes and Their Electrochemical Properties. II. Effects of Doping Strontium to LaMnO3 on the Electrode Properties
Ioroi, Tsutomu, *see* Uchimoto, Yoshiharu 12 4277
Isaacs, H. S., *see* Schmuki, Patrik 3 791
Isaacs, H. S., *see* Ryan, M. P. 5 1566
Isaacs, H. S., *see* Oblonsky, L. J. 6 1922
Ishibashi, Chikara, *see* Ye, Shen 5 1614
Ishibashi, Kenichiro, *see* Yoshida, Yasuhiro 4 1335
Ishida, T., *see* Hayafuji, N. 8 2951
Ishihara, Tatsumi; Honda, Miho; Shibayama, T.; Minami, Hiroki; Nishiguchi, Hiroyasu; Takita, Yusaku 9 3177
Intermediate Temperature Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion Conductor. I.

Author	Issue	Page
Doped SmCoO3 as a New Cathode Material		
Ishii, Hiromu; Sato, Yasuhiro; Arita, Yoshinobu	12	4203
W-Clad Layer Formation on Heavily Doped p+-Si by Selective Chemical Vapor Deposition		
Ishikawa, Masahiko, *see* Horita, Teruhisa	9	3196
Ismail, Khaled M., *see* Macdonald, Digby D.	9	3141
Isomae, Seiichi, *see* Shimizu, Hirofumi	7	2523
Issaev, Nick, *see* Wang, Xiaoping	3	974
Istratov, A. A., *see* Hieslmair, Henry	12	4259
Istratov, Andrei A.; Hedemann, H.; Seibt, M.; Vyvenko, O. F.; Schröter, W.; Heiser, T.; Flink, C.; Hieslmair, H.; Weber, E. R.	11	3889
Electrical and Recombination Properties of Copper-Silicide Precipitates in Silicon		
Itaya, Kingo, *see* Yao, H.	9	3090
Ito, Makoto, *see* Gilmore, Damien	2	621
Ito, Tomonao, *see* Ichimura, Masaya	9	3265
Ito, Yasuhiko, *see* Nohira, T.	3	785
Ito, Yasuhiko, *see* Kondoh, Junya	5	1527
Ito, Yasuhiko, *see* Kondoh, Junya	5	1536
Ito, Yasuhiko, *see* Kondoh, Junya	5	1550
Ito, Yasuhiko, *see* Amezawa, Koji	6	1986
Ito, Yasuhiko, *see* Amezawa, Koji	10	3313
Ito, Yasuyuki, *see* Onishi, Shigeo	7	2563
Itoh, Hibiki, *see* Mori, Masashi	4	1374
Itoh, Ken-ichi; Horii, Noritaka; Matsumoto, Osamu	8	2895
Effect of Chlorine Species on Diamond Deposition from Plasma Jets with Chlorobenzenes as Carbon Sources		
Itsumi, Manabu; Okazaki, Yukio; Watanabe, Masaki; Ueki, Takemi; Yabumoto, Norikuni	6	2143
Surface Pits Observed on SiO2 Thermally Grown at High Temperatures on (111)-Oriented Czochralski-Silicon		
Ivanov, Borislav, *see* Zambov, Ludmil	7	2494
Ivanova, Ana, *see* Faltermeier, Cheryl G.	2	676
Iwakura, Chiaki, *see* Inoue, Hiroshi	1	138
Iwase, Masao, *see* Yagishita, Atsushi	9	3160
Iwata, Tomoo; Enami, Y.	3	931
Analysis of Fuel Utilization Performance of Round Substrate, Planar Solid Oxide Fuel Cells		
Iwata, Yoshiki, *see* Hoshino, Katsuyoshi	2	711
Izaki, Y., *see* Morita, Hiroshi	5	1511
Izu, Noriya, *see* Otsuka-Yao-Matsuo, Shinya	4	1406
Jackson, J. C.; Robinson, T.; Oralkan, O.; Dumin, David J.; Brown, G. A.	3	1033
Differentiation Between Electric Breakdowns and Dielectric Breakdown in Thin Silicon Oxides		
Jackson, M., *see* Franklin, Thomas C.	3	801
Jahnes, C., *see* Grill, A.	5	1649
Jain, Anand, *see* Leventis, Nicholas	4	L55
Jain, Mukul, *see* Motupally, Sathya	1	34
James, P. I.; Garfias-Mesias, L. F.; Moyer, P. J.; Smyrl, William H.	4	L64
Scanning Electrochemical Microscopy with Simultaneous Independent Topography		
James, P. I., *see* Garfias-Mesias, L. F.	6	2005
Jamnik, J.; Maier, J.	5	1762
Chemical Diffusion Through Grain Boundaries in Mixed Conductors		
Jang, Kuk-Jin, *see* Kim, Dong-Myung	1	93
Jang, Kuk-Jin, *see* Lee, Sang-Min	6	1953
Jang, Kuk-Jin, *see* Kim, Dong-Myung	10	3387
Jang, Se-Aug; Yeo, In-Seok; Kim, Young-Bog	5	1664
Field Oxide Thinning Behavior in Local Oxidation of Silicon Process under Enhanced Oxidation Conditions		
Jang, Young-Il, *see* Chiang, Yet-Ming	3	887
Jankoski, C. A., *see* Lobnig, Renate E.	3	946
Jargelius-Pettersson, R. F. A.; Pound, B. G.	5	1462
Examination of the Role of Molybdenum in Passivation of Stainless Steels Using AC Impedance Spectroscopy		
Jean, C., *see* Belkouch, Said	7	2489
Jeng, Eric Gi-Shong; Sun, I-Wen	4	1196
Electrochemistry of Thallium in the Basic Aluminum Chloride-1-methyl-3-ethylimidazolium Chloride Room Temperature Molten Salt		
Jenkins, Gwyn M., *see* Maleki, Hossein	3	721
Jensen, Klava F., *see* Banerjee, Suman	11	3974
Jenson, M., *see* Jung, K. B.	11	4025
Jeon, Il Cheol, *see* Wurm, D. Brad	5	1483
Jeon, J. S., *see* Cheng, X.	1	352
Jeon, Joong S., *see* Li, G.	1	241
Jessensky, O.; Müller, Frank; Gösele, U.	11	3735
Self-Organized Formation of Hexagonal Pore Structures in Anodic Alumina		
Jha, Kamal; Bauer, Gerald L.; Weidner, John W.	10	3521
Steady-State Modeling of a Parallel-Plate Electrochemical Fluorination Reactor		
Jiang, Yi; Wang, Shizhong; Zhang, Yahong; Yan, Jingwang; Li, Wenzhao	2	373
Kinetic Study of the Formation of Oxygen Vacancy on Lanthanum Manganite Electrodes		
Jiang, Yi, *see* Wang, Shizhong	6	1932
Jisrawi, N. M., *see* Mukerjee, S.	2	466
Johansson, L.-G., *see* Falk, Torgny	1	39
Johansson, L.-G., *see* Falk, Torgny	9	2993
Johansson, Lar-Gunnar, *see* Strandberg, Helena	4	1093
Johnson, Christopher S., *see* Shao-Horn, Y.	2	582
Johnson, D., *see* Lee, J. W.	11	4036
Johnson, James W., *see* Leventis, Nicholas	4	L55
Jokerst, Nan Marie, *see* Kropewnicki, Thomas J.	5	L88
Jokinen, Janne, *see* Ritala, Mikko	8	2914
Jones, Michael, *see* Faltermeier, Cheryl G.	2	676
Jones, S. L., *see* Cho, K. G.	10	3456
Jones, Stephen K., *see* Badenes, Goncal	5	1653
Jordy, C., *see* Leblanc, Patrick	3	860
Jordy, C., *see* Knosp, B.	5	1478
Jow, T. Richard; Zheng, J. P.	1	49
Electrochemical Capacitors Using Hydrous Ruthenium Oxide and Hydrogen Inserted Ruthenium Oxide		
Juan, W. H., *see* Weigold, J. W.	5	1767
Juang, Miin-Horng, *see* Cheng, Huang-Chung	10	3590
Jun, Byung-Hyuk, *see* Han, Sang-Soo	2	652
Jung, Jae-Han, *see* Kim, Dong-Myung	1	93
Jung, K. B.; Lambers, E. S.; Childress, J. R.; Pearton, S. J.; Jenson, M.; Hurst, A. T., Jr.	11	4025
Cl2-Based Inductively Coupled Plasma Etching of NiFe and Related Materials		
Jung, Soon-Moon, *see* Singh, Rajiv K.	11	3963
Jung, Yongju; Suh, Min Chul; Shim, Sang Chul; Kwak, Juhyoun	9	3123
Lithium Insertion into Disordered Carbons Prepared from Designed Organic Polymers		
Jüttner, K., *see* Juzeliúnas, E.	1	53
Juzeliúnas, E.; Jüttner, K.	1	53
Electrochemical Study of NO Conversion from Fe(II)-EDTA-NO Complex on Pt Electrodes		
Kageyama, Hiroyuki, *see* Tabuchi, Mitsuhara	4	L49
Kagoshima, Yasushi, *see* Sato, Fumio	9	3063
Kahrizi, M., *see* Belkouch, Said	7	2489
Kahrizi, M., *see* Sayedi, S. M.	8	2937
Kahrizi, M., *see* Sayedi, S. M.	8	2944
Kai, Wu; Bai, Chin Yuan	7	2265
The Corrosion of Mo-Al Alloys in a H2/H2S/H2O Gas Mixture at 800-1000 C		
Kaimai, Atsushi, *see* Onuma, Shigenori	3	920
Kaimai, Atsushi, *see* Onuma, Shigenori	9	3117
Kaimai, Atushi, *see* Kawamura, Ken-ichi	7	2552
Kakimoto, Koichi; Ozoe, Hiroyuki	5	1692
Segregation of Oxygen at a Solid/Liquid Interface in Silicon		
Kallingal, C. G.; Tomozawa, M.; Murarka, Shyam P.	5	1790
Substrate Effects on Hardness and Polishing of SiO2 Thin Films		
Kallingal, C. G.; Duquette, D. J.; Murarka, Shyam P.	6	2074
An Investigation of Slurry Chemistry Used in Chemical Mechanical Planarization of Aluminum		
Kaloyeros, Alain E., *see* Faltermeier, Cheryl G.	2	676
Kaloyeros, Alain E., *see* Lau, Janice E.	12	4271
Kaluri, Sita R.; Hess, Dennis W.	2	662
Nitrogen Incorporation in Thin Silicon Oxides in a N2O Plasma. Effects of Processing Conditions		
Kamiya, Michiyo, *see* Ikuma, Yasuro	8	2910
Kanda, Motoya, *see* Takami, Norio	2	478
Kang, B. K., *see* Kang, H. S.	10	3581
Kang, C.-S., *see* Chen, L.	4	1292
Kang, H. S.; Ahn, C. G.; Kang, B. K.; Kwon, Y. K.	10	3581
Method for Measuring Deep Levels in Thin Silicon-on-Insulator Layer Without Any Interface Effects		
Kang, Jin-Kyu, *see* Lee, Sung-Woo	8	2900
Kang, Sang Won; Yoo, Jae Soo; Lee, Jong Duk	2	648
Effects of SnO2 on the Phosphor Screen Behaviors under Low Energy Electron Excitation		
Kang, Sangboem, *see* Kropewnicki, Thomas J.	5	L88
Kang, Tae-Sik; Kim, Donghwan; Kim, Kang-Jin	6	1982
Time-Dependent Electrochromism of Nanocrystalline TiO2 Films in Propylene Carbonate Solution of LiClO4		
Kanner, G. S., *see* Lillard, R. Scott	8	2718
Kanno, Ryoji, *see* Tabuchi, Mitsuhara	4	L49
Kao, J.-S., *see* Yeh, Ching-Fa	1	252
Karasawa, J., *see* Sheng, J.	5	1592
Kardynal, B., *see* West, W. C.	9	2971
Karecki, Simon; Pruette, Laura; Reif, Rafael; Sparks, Terry; Beu, Laurie; Vartanian, Victor	12	4305
Use of Novel Hydrofluorocarbon and Iodofluorocarbon Chemistries for a High Aspect Ratio Via Etch in a High Density Plasma Etch Tool		
Karen, Pavel; Norby, Truls	1	264
La1-xBaxCr1-yTiyO3 with Varied Oxygen Content		
Karouta, F., *see* Buda, Manuela	3	1076
Kashimada, Hideo, *see* Okuda, Shoji	4	1338
Kataoka, Yoshinori, *see* Omiya, Kayoko	12	4323
Katcki, J., *see* Czerwinski, A.	6	2107
Kato, F., *see* Ogata, Yukio H.	7	2439
Kato, Masaki, *see* Maeda, Susumu	7	2548
Kato, Takanori, *see* Sato, Fumio	9	3063
Kato, Tohru, *see* Horita, Teruhisa	9	3196
Katsuki, Nobuyuki; Takahashi, Eietsu; Toyoda, Mayumi; Kurosu, Tateki; Iida, Masamori; Wakita, Shuhei; Nishiki, Yoshinori; Shimamune, Takayuki	7	2358
Water Electrolysis Using Diamond Thin-Film Electrodes		
Kaufmann, L. M. F., *see* Buda, Manuela	3	1076
Kawada, T., *see* Onuma, Shigenori	9	3117
Kawada, Tatsuya, *see* Onuma, Shigenori	3	920
Kawada, Tatsuya, *see* Kawamura, Ken-ichi	7	2552
Kawada, Tatsuya, *see* Horita, Teruhisa	9	3196
Kawado, Seiji, *see* Sato, Fumio	9	3063
Kawagoe, Tomoo, *see* Tasaka, Akimasa	4	1160
Kawai, Kenji, *see* Yonekura, Kazumasa	7	2480
Kawamura, Ken-ichi, *see* Onuma, Shigenori	3	920
Kawamura, Ken-ichi; Watanabe, Kensuke; Nigara, Yutaka; Kaimai, Atushi; Kawada, Tatsuya; Mizusaki, Junichiro	7	2552
Electric Properties of [(ZrO2)0.8(CeO2)0.2]0.9(CaO)0.1 Solid Solution		
Kawamura, Ken-ichi, *see* Onuma, Shigenori	9	3117
Kawamura, Noriyasu, *see* Yagishita, Atsushi	9	3160
Kawase, Motoaki, *see* Tago, Teruoki	7	2516
Kawashima, Tsuyoshi, *see* Kondoh, Junya	5	1527
Kawata, Hiroaki; Kubo, Takashi; Yasuda, Masaaki; Murata, Kenji	5	1701
Power Measurements for Radio-Frequency Discharges with a Parallel-Plate-Type Reactor		
Kayama, Satoshi, *see* Ohshika, Katsushi	1	323
Keane, J., *see* Bhattacharya, R. N.	10	3435
Keddam, M., *see* Gabrielli, Claude	7	2386
Keddam, M., *see* Bertocci, U.	8	2780
Keer, L. M., *see* Chekina, O. G.	6	2100
Kelly, J. J., *see* Kooij, E. S.	4	1232
Kelly, James J.; Rahman, K. M. Anisur; Durning, Christopher J.; West, Alan C.	2	492
Effect of Current Distribution on Quartz Crystal Microbalance Measurements		
Kelly, James J.; West, Alan C.	10	3472
Copper Deposition in the Presence of Polyethylene Glycol. I. Quartz Crystal Microbalance Study		
Kelly, James J.; West, Alan C.	10	3477
Copper Deposition in the Presence of Polyethylene Glycol. II. Electrochemical Impedance Spectroscopy		
Kendig, M. W., *see* Waldrop, James R.	1	L11
Kenis, K., *see* De Gendt, Stefan	7	2589
Kephart, J. S.; Carim, A. H.	9	3253
Ternary Compounds and Phase Equilibria in Ti-Ge-C and Ti-Ge-B		
Kevrekidis, Ioannis G., *see* Mazouz, Nadia	7	2404
Khalil, A., *see* Gabrielli, Claude	7	2386
Khan, Shahed U. M.; Akikusa, Jun	1	89
Stability and Photoresponse of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Film Electrodes during Water Splitting Reactions		
Kharkats, Yu. I., *see* Eikerling, M.	8	2684
Kharton, Vladislav V.; Tikhonovich, V. N.; Shuangbao, Li; Naumovich, E. N.; Kovalevsky, A. V.; Viskup, A. P.; Bashmakov, I. A.; Yaremchenko, A. A.	4	1363
Ceramic Microstructure and Oxygen Permeability of SrCo(Fe,M)O3-delta (M = Cu or Cr) Perovskite Membranes		
Khaselev, Oscar; Yahalom, J.	1	190
Constant Voltage Anodizing of Mg-Al Alloys in KOH-Al(OH)3 Solutions		
Khaselev, Oscar; Turner, John A.	10	3335
Electrochemical Stability of p-GaInP2 in Aqueous Electrolytes Toward Photoelectrochemical Water Splitting		
Khong, Y. L., *see* Lee, W. P.	1	329
Kiefer, John, *see* Harris, Stephen J.	9	3203
Kijima, Takahiko, *see* Ohki, Atushi	10	3560
Kikuchi, Shiomi, *see* Kondoh, Junya	5	1527
Kikuchi, Shiomi, *see* Kondoh, Junya	5	1536
Kikuchi, Shiomi, *see* Kondoh, Junya	5	1550
Kim, Byungwook; Cho, Dong-il Dan	7	2499
Aqueous KOH Etching of Silicon (110). Etch		

Author — Issue — Page

Characteristics and Compensation Methods for Convex Corners
Kim, Chang-Il, see Kwon, Kwang-Ho — 3 — 1044
Kim, Do-Geun; Seong, Tae-Yeon; Baik, Young-Joon — 6 — 2095
Structural Investigation of the Bias-Enhanced Nucleation and Growth of Diamond Films by Microwave Plasma Chemical Vapor Deposition
Kim, Dong-Keun, see Seol, Young Hun — 1 — 292
Kim, Dong-Myung; Lee, Sang-Min; Jung, Jae-Han; Jang, Kuk-Jin; Lee, Jai-Young — 1 — 93
Electrochemical Properties of Over-stoichiometric ZrMn1-xVxNi1.4+y Alloys with C15 Laves Phase
Kim, Dong-Myung, see Lee, Sang-Min — 6 — 1953
Kim, Dong-Myung; Lee, Ho; Jang, Kuk-Jin; Lee, Jai-Young — 10 — 3387
Determination of Internal Cell Pressures in Sealed Ni-MH Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydrogen-Storage Alloys
Kim, Dong-Won; Sun, Yang-Kook — 6 — 1958
Polymer Electrolytes Based on Acrylonitrile-Methyl Methacrylate-Styrene Terpolymers for Rechargeable Lithium-Polymer Batteries
Kim, Donghwan, see Kang, Tae-Sik — 5 — 1982
Kim, Doo-Chul, see Yun, Seok-Min — 7 — 2576
Kim, Geunbae, see Cho, Jaephil — 6 — 1949
Kim, H. J., see Cho, H. J. — 11 — 3884
Kim, Hyeong Joon, see Lee, Jong Myeong — 3 — 1066
Kim, Hyunsoo; Akao, Noboru; Hara, Nobuyoshi; Sugimoto, Katsuhisa — 8 — 2818
Comparison of Corrosion Resistances Between Fe2O3-TiO2 Artificial Passivation Film and Passivation Film on Fe-Ti Alloy
Kim, J.; Manthiram, Arumugam — 4 — L53
Low Temperature Synthesis and Electrode Properties of Li4Mn5O12
Kim, J. J., see Byun, Jeong Soo — 9 — 3228
Kim, J. O., see Lee, Sangbong B. — 11 — 3935
Kim, J.; Song, X.; Kinoshita, Kim; Madou, M.; White, R. — 7 — 2314
Electrochemical Studies of Carbon Films from Pyrolyzed Photoresist
Kim, Jae Jeong, see Byun, Jeong Soo — 11 — 3941
Kim, Jae-Jeong, see Park, Ji-Soo — 10 — 3585
Kim, Jong Hun, see Barsoukov, Evgenij — 8 — 2711
Kim, Jong Hyun, see Barsoukov, Evgenij — 8 — 2711
Kim, Kang-Jin, see Kang, Tae-Sik — 6 — 1982
Kim, Kwang Chul, see Seol, Young Hun — 1 — 292
Kim, Kwang-Bum, see Kim, Min-Seuk — 2 — 507
Kim, Man, see Osaka, Tetsuya — 7 — 2419
Kim, Min-Seuk; Kim, Kwang-Bum — 2 — 507
A Study on the Phase Transformation of Electrochemically Precipitated Nickel Hydroxides Using an Electrochemical Quartz Crystal Microbalance
Kim, Sang-Gi, see Kwon, Kwang-Ho — 3 — 1044
Kim, T., see Rao, Nagaraja P. — 6 — 2051
Kim, Y.-H., see Wurm, D. Brad — 5 — 1483
Kim, Yeon-Taik, see Wurm, D. Brad — 5 — 1483
Kim, Young-Bog, see Jang, Se-Aug — 5 — 1664
Kimerling, L. C., see Norga, Gerd J. — 7 — 2602
Kimura, Masao, see Naito, Shizuo — 7 — 2471
King, C. N., see Lau, Janice E. — 12 — 4271
Kinoshita, Kim, see Kim, J. — 7 — 2314
Kirah, Kh.; Zekry, A.; Ragaie, H. F.; Fikry, W. F. — 1 — 332
Modeling of the Transient Behavior of Anodic Oxides Formed in Si/HF Electrolyte Systems
Kishimoto, Akira, see Nakamura, Yoshinobu — 2 — 632
Kissinger, Gudrun; Vanhellemont, J.; Lambert, U.; Gräf, D.; Dornberger, E.; Richter, H. — 5 — L75
Influence of Residual Point Defect Supersaturation on the Formation of Grown-In Oxide Precipitate Nuclei in CZ-Si
Kittelson, D., see Rao, Nagaraja P. — 6 — 2051
Kjelstrup, Signe, see Amezawa, Koji — 10 — 3313
Kleinke, M., see Faria, I. C. — 1 — 235
Kleitz, M., see Vernoux, Philippe — 10 — 3487
Kleshnya, V., see Zakroczymski, Tadeusz — 4 — 1142
Klima, K., see Czerwinski, A. — 6 — 2107
Kneer, E. A., see Li, G. — 1 — 241
Kneer, E. A., see Cheng, X. — 1 — 352
Knorr, Andreas, see Faltermeier, Cheryl G. — 2 — 676
Knosp, B., see Leblanc, Patrick — 3 — 860
Knosp, B.; Jordy, C.; Blanchard, Ph.; Berlureau, T. — 5 — 1478
Evaluation of Zr(Ni,Mn)2 Laves Phase Alloys as Negative Active Material for Ni-MH Electric Vehicle Batteries
Knotter, D. M., see De Gendt, Stefan — 7 — 2589
Ko, Dae-Hong, see Park, Heungsoo — 5 — 1724
Kobayashi, Hironori, see Tabuchi, Mitsuhara — 4 — L49
Kobayashi, Hiroshi, see Oshio, Shozo — 11 — 3898
Kobayashi, Hiroshi, see Oshio, Shozo — 11 — 3903
Kohl, Paul A., see Kropewnicki, Thomas J. — 5 — L88
Kohl, Paul A., see Zhao, Qiang — 4 — 1257
Kohl, Paul A., see Scott, Leonard L. — 12 — 4052
Kohl, Paul A., see Ding, Youzhen — 12 — 4057
Kohl, Paul A., see Scott, Leonard L. — 12 — 4062
Kohl, Paul, see Gole, James L. — 9 — 3284
Kokado, Hiroshi, see Hoshino, Katsuyoshi — 2 — 711
Kolb, D. M., see Engelmann, G. E. — 3 — L33
Kolb, D. M., see Schmidt, Thomas J. — 7 — 2354
Koleske, D. D., see Wolter, Scott D. — 2 — 629
Kolev, P.; Deen, M. H.; Hardy, T.; Murowinski, R. — 9 — 3258
A New Voltage Transient Technique for Deep-Level Studies in Depletion-Mode Field-Effect Transistors
Kolman, David G.; Gaudett, M. A.; Scully, J. R. — 6 — 1829
Modeling of Anodic Current Transients Resulting from Oxide Rupture of Plastically Strained Beta + Alpha Titanium
Komaba, Shinichi, see Osaka, Tetsuya — 2 — 406
Komaba, Shinichi; Fujihana, Kenichiro; Osaka, Tetsuya; Aiki, Sachiko; Nakamura, Sadako — 4 — 1126
Electrochemical Formation of Polypyrrole/SiO2 Composite Film and Its Application to Organic Electroluminescence Devices
Komiyama, H., see Takeuchi, T. — 4 — 1277
Komiyama, H., see Chae, Y. K. — 12 — 4226
Komiyama, Hiroshi, see Endo, Akira — 3 — L35
Komiyama, Hiroshi, see Takahashi, Takahiro — 3 — 1070
Kondo, Aturo, see Tabuchi, Mitsuhara — 4 — L49
Kondo, Kazuo; Fukui, Keisuke — 3 — 840
Current Evolution of Electrodeposited Copper Bumps with Photoresist Angle
Kondo, Kazuo; Fukui, Keisuke — 9 — 3007
Shape Evolution of Electrodeposited Bumps with Deep Cavity
Kondoh, E., see Baklanov, Mikhail R. — 9 — 3240
Kondoh, Junya; Kawashima, Tsuyoshi; Kikuchi, Shiomi; Tomii, Yoichi; Ito, Yasuhiko — 5 — 1527
Effect of Aging on Yttria-Stabilized Zirconia. I. A Study of Its Electrochemical Properties
Kondoh, Junya; Kikuchi, Shiomi; Tomii, Yoichi; Ito, Yasuhiko — 5 — 1536
Effect of Aging on Yttria-Stabilized Zirconia. II. A Study of the Effect of the Microstructure on Conductivity
Kondoh, Junya; Kikuchi, Shiomi; Tomii, Yoichi; Ito, Yasuhiko — 5 — 1550
Effect of Aging on Yttria-Stabilized Zirconia. III. A Study of the Effect of Local Structures on Conductivity
Kong, Fan-ping, see Zhuang, Guorong — 1 — 159
Kong, Fanping; Kostecki, Robert; McLarnon, Frank — 4 — 1174
In Situ Ellipsometric Study of the Electroprecipitation of Nickel Hydroxide Films
Königstein, Christian; Neumann-Spallart, Michael — 1 — 337
Mechanistic Studies on the Electrodeposition of ZnTe
Konishi, Y., see Fukunaka, Y. — 11 — 3814
Kono, Michiyuki; Hayashi, Eriko; Watanabe, Masayoshi — 5 — 1521
Network Polymer Electrolytes with Free Chain Ends as Internal Plasticizer
Kooij, E. S.; Butter, K.; Kelly, J. J. — 4 — 1232
Hole Injection at the Silicon/Aqueous Electrolyte Interface: A Possible Mechanism for Chemiluminescence from Porous Silicon
Kopf, R. F., see Lee, J. W. — 11 — 4036
Koranaios, Peter, see Fuller, Joan — 1 — 24
Koretsky, M. D., see Chen, C. — 1 — 226
Kornyshev, A. A., see Eikerling, M. — 5 — 2684
Kosanovich, K., see De Vidts, P. — 11 — 3874
Kostecki, Robert, see Kong, Fanping — 4 — 1174
Kostecki, Robert; Richardson, Tom; McLarnon, Frank — 7 — 2380
Photochemical and Photoelectrochemical Behavior of a Novel TiO2/Ni(OH)2 Electrode
Kötschau, I. M.; Dahn, J. R. — 8 — 2672
In Situ X-Ray Study of LiMnO2
Koumoto, Kunihito, see Shin, Woosuck — 7 — 2456
Kouno, Takahiro; Niwa, Hideo; Yamada, Masao — 6 — 2164
Effect of TiN Microstructure on Diffusion Barrier Properties in Cu Metallization
Kovalevsky, A. V., see Kharton, Vladislav V. — 4 — 1363
Kowal, K., see Liu, W. — 2 — 459
Kozicki, M. N., see West, W. C. — 9 — 2971
Kreissig, Ulrich, see Nitzsche, Petra — 5 — 1755
Kriksunov, Leo; Macdonald, Digby D. — 12 — 4107
Estimation of Dissociation Parameters of Electrolytes at High Temperatures from Specific Conductance Data
Krischer, Katharina, see Mazouz, Nadia — 7 — 2404
Kronik, Leeor; Ashkenasy, N.; Leibovitch, M.; Fefer, E.; Shapira, Yoram; Gorar, S.; Hodes, G. — 5 — 1748
Surface States and Photovoltaic Effects in CdSe Quantum Dot Films
Kropewnicki, Thomas J.; Doolittle, W. Alan; Carter-Coman, Carrie; Kang, Sangboem; Kohl, Paul A.; Jokerst, Nan Marie; Brown, April S. — 5 — L88
Selective Wet Etching of Lithium Gallate
Kruger, Jerome, see Shifler, David A. — 7 — 2396
Kruijt, W. S.; Bergveld, H. J.; Notten, P. H. L. — 11 — 3764
Electronic Network Modeling of Rechargeable Batteries. I. The Nickel and Cadmium Electrodes
Kruijt, W. S., see Notten, P. H. L. — 11 — 3774
Kubo, Takashi, see Kawata, Hiroaki — 5 — 1701
Kubo, Takaya; Nishikitani, Yoshinori — 8 — 1729
Deposition Temperature Dependence of Optical Gap and Coloration Efficiency Spectrum in Electrochromic Tungsten Oxide Films
Kubota, Shigeru, see Yoshida, Yasuhiro — 4 — 1335
Kudo, Jun, see Onishi, Shigeo — 7 — 2563
Kuech, T. F., see Winder, Edmund J. — 7 — 2475
Kuhrmann, J. F.; Maly, K.; Preuss, A.; Adolphi, B.; Drescher, K.; Wirth, T.; Oesterle, W.; Fanciulli, M.; Weyer, G. — 6 — 2138
Oxidation and Reduction of Liquid SnPb (60/40) under Ambient and Vacuum Conditions
Kumagai, Masao, see Yokota, Katsuhiro — 3 — 1028
Kumar, D., see Cho, K. G. — 10 — 3456
Kuniyasu, Hitoshi, see Hattori, Takashi — 9 — 3278
Kuo, J. M., see Lee, J. W. — 11 — 4036
Kuo, Yue; Tai, T. L. — 12 — 4313
High Temperature Reactive Ion Etching of Indium-Tin Oxide with HBr and CH4 Mixtures
Kurata, Y., see Milovzorov, Dmitri — 10 — 3615
Kuribayashi, K., see Fukunaka, Y. — 6 — 1876
Kurnik, Ronald T.; Berner, Bret; Tamada, Janet; Potts, Russell O. — 12 — 4119
Design and Simulation of a Reverse Iontophoretic Glucose Monitoring Device
Kuroda, Jun, see Ohshika, Katsushi — 1 — 323
Kuroe, S., see Lee, C.-G. — 8 — 2747
Kurosu, Tatski, see Katsuki, Nobuyuki — 7 — 2358
Kusano, Jun-ichi, see Sato, Fumio — 9 — 3063
Kusumoto, Nobuo, see Yoshida, Yasuhiro — 4 — 1335
Kuwabata, Susumu; Tsumura, Naohiro; Goda, Shin-ichi; Martin, Charles R.; Yoneyama, Hiroshi — 5 — 1415
Charge-Discharge Properties of Composite of Synthetic Graphite and Poly(3-n-hexylthiophene) as an Anode Active Material in Rechargeable Lithium-Ion Batteries
Kuwabata, Susumu; Idzu, Tetsuo; Martin, Charles R.; Yoneyama, Hiroshi — 8 — 2707
Charge-Discharge Properties of Composite Films of Polyaniline and Crystalline V2O5 Particles
Kwak, B. S., see Neudecker, B. J. — 12 — 4148
Kwak, Juhyoun, see Jung, Yongju — 9 — 3123
Kwon, Kwang-Ho; Yun, Sun Jin; Kim, Chang-Il; Park, Jong-Moon; Baek, Kyu-Ha; Yoon, Yong-Sun; Kim, Sang-Gi; Nam, Kee-Soo — 3 — 1044
The Effects of Fluorine Passivation Using SF6 Plasma on the Corrosion of Al(Cu 1%) at Grain Boundaries
Kwon, Y. K., see Kang, H. S. — 10 — 3581
Kwong, S., see Fahmer, Wolfgang R. — 5 — 1706
Kwor, Richard, see Zheng, D. W. — 5 — 1668
Lacmann, R., see Bönsch, P. — 4 — 1273
Lahnor, Peter, see Elbel, Norbert — 5 — 1659
Lai, Wen-Kai, see Cheng, Huang-Chung — 10 — 3590
Laitinen, Timo, see Bojinov, Martin — 6 — 2043
Lakshmanan, Satish K.; Gill, William N. — 2 — 694
Comparison of Experiments with a Lumped Parameter Model of the Plasma Assisted Chemical Vapor Deposition of Copper
Lalande, G., see Coté, R. — 7 — 2411
Lamb, H. Henry, see Courtney, Clay H. — 11 — 3957
Lambeck, P. V., see Gui, Chengqun — 6 — 2198
Lambers, E. S., see Jung, K. B. — 11 — 4025
Lambert, U., see Kissinger, Gudrun — 5 — L75
Lambert, U., see Gräf, D. — 1 — 275
Lamberts, L., see Müller, Robert — 2 — 541
Lamego, L. S. R., see Barcia, Oswaldo E. — 12 — 4189
Lan, Chung Wen — 11 — 3926
Heat Transfer, Fluid Flow, and Interface Shapes in Zone Melting Processing with Induction Heating
Landheer, D., see Sayedi, S. M. — 8 — 2937
Landheer, D., see Sayedi, S. M. — 8 — 2944
Landolt, D., see Madore, C. — 5 — 1561
Landolt, D., see Piotrowski, O. — 7 — 2362
Landolt, D., see Tato, W. — 12 — 4173
Landolt, Dieter, see Mischler, S. — 3 — 750
Landsberger, L. M., see Belkouch, Said — 7 — 2489
Landsberger, L. M., see Sayedi, S. M. — 8 — 2937
Landsberger, L. M., see Sayedi, S. M. — 8 — 2944
Lange, Klaus, see Nitzsche, Petra — 5 — 1755
Langenhuizen, Nicole P. W. — 9 — 3094
The Effect of Mass Transport on Li Deposition and Dissolution
Langmaier, Jan, see Samec, Zdenek — 8 — 2740
Lapicque, F., see Ben Farah, M. — 10 — 3550
Larcher, D.; Courjal, P.; Urbina, R. Herrera; Gérand, B.; Blyr, A.; du Pasquier, A.;

Author — Issue — Page

Tarascon, J.-M. 10 3392
Synthesis of MnO2 Phases from LiMn2O4 in Aqueous Acidic Media. Mechanisms of Phase Transformations, Reactivity, and Effect of Bi Species
Larker, Richard, *see* Manessis, Dionissios 4 1355
Laruelle, S., *see* Grugeon-Dewaele, S. 10 3358
Lasia, Andrzej, *see* Shervedani, Reza Karimi 7 2219
Lassègues, Jean-Claude, *see* Rey, Isabelle 9 3034
Lau, Janice E.; Barth, Karl W.; Peterson, Gregory G.; Endisch, Denis; Topol, A.; Kaloyeros, Alain E.; Tuenge, R. T.; Delarosa, M.; King, C. N. 12 4271
In Situ Pulsed Deposition Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electroluminescent Flat Panel Display Applications
Laura, Richard, *see* Ein-Eli, Yair 1 L1
Lavela, P., *see* Alcántara, R. 3 730
Lavrencic-Stangar, U., *see* Orel, Boris 5 1607
Laycock, N. J.; White, S. P.; Noh, J. S.; Wilson, P. T.; Newman, R. C. 4 1101
Perforated Covers for Propagating Pits
Laycock, N. J., *see* Ryan, M. P. 5 1566
Laycock, Nick J.; Moayed, M. H.; Newman, R. C. 8 2622
Metastable Pitting and the Critical Pitting Temperature
Leblanc, Patrick; Blanchard, Ph.; Senyarich, Stéphane 3 844
Self-Discharge of Sealed Nickel-Metal Hydride Batteries. Mechanisms and Improvements
Leblanc, Patrick; Jordy, C.; Knosp, B.; Blanchard, Ph. 3 860
Mechanism of Alloy Corrosion and Consequences on Sealed Nickel-Metal Hydride Battery Performance
Lee, Byung Hak, *see* Byun, Jeong Soo 9 3228
Lee, Byung Hak, *see* Park, Ji-Soo 10 3585
Lee, Byung-Teak, *see* Seol, Young Hun 1 292
Lee, C.-G.; Nakano, H.; Nishina, T.; Uchida, Isamu; Kuroe, S. 8 2747
Characterization of a 100 cm2 Class Molten Carbonate Fuel Cell with Current Interruption
Lee, Christopher E.; Bergens, Steven H. 12 4182
Deposition of Ru Adatoms on Pt Using Organometallic Chemistry. Electro-oxidation of Methanol, Ethanol, 1,2-Ethanediol, and D-Glucose over a Pt-Ruads Surface Optimized for Oxidation of Methanol
Lee, D. G., *see* Cho, K. G. 10 3456
Lee, Ga-Won; Han, Chul-Hi 8 2883
A New Charge Pumping Model and Characterization of Process-Dependent Traps in Polycrystalline Silicon Thin Film Transistors
Lee, H. S.; Yang, X. Q.; Xiang, C. L.; McBreen, J.; Choi, L. S. 8 2813
The Synthesis of a New Family of Boron-Based Anion Receptors and the Study of Their Effect on Ion Pair Dissociation and Conductivity of Lithium Salts in Nonaqueous Solutions
Lee, Hee Y., *see* Huang, Keqin 9 3220
Lee, Ho, *see* Kim, Dong-Myung 10 3387
Lee, Hosull, *see* Barsoukov, Evgenij 8 2711
Lee, Hyung Jae, *see* Seol, Young Hun 1 292
Lee, J. W.; Davidson, M. R.; Pathangey, B.; Holloway, P. H.; Pearton, Steve J. 7 2461
Dry Etching of SrS Thin Films
Lee, J. W.; Park, Y. D.; Childress, J. R.; Pearton, S. J.; Sharifi, F.; Ren, F. 7 2585
Copper Dry Etching with Cl2/Ar Plasma Chemistry
Lee, J. W.; Pearton, S. J.; Ren, F.; Kopf, R. F.; Kuo, J. M.; Shul, R. J.; Constantine, C.; Johnson, D. 11 4036
High Density Plasma Damage in InGaP/GaAs and AlGaAs/GaAs High Electron Mobility Transistors
Lee, J. Y., *see* Wang, M. T. 12 4206
Lee, Jai-Young, *see* Kim, Dong-Myung 1 93
Lee, Jai-Young, *see* Lee, Sang-Min 8 1953
Lee, Jai-Young, *see* Kim, Dong-Myung 10 3387
Lee, Jong Duk, *see* Kang, Sang Won 2 648
Lee, Jong Duk, *see* Cho, Sung Hee 3 1017
Lee, Jong Myeong; Hwang, Cheol Seong; Cho, Hag-Ju; Suk, Chang-Gil; Kim, Hyeong Joon 3 1066
Effect of O2 Addition on the Deposition of Pt Thin Films by Metallorganic Chemical Vapor Deposition
Lee, Jongwook; Chapman, Thomas W. 9 3042
Secondary Current Distribution in a Curvilinear Hull Cell
Lee, Jung-Hyun, *see* Yun, Jong-Ho 2 L23
Lee, Ki-Chun, *see* Yoo, Han-Il 12 4243
Lee, Kwang-Man, *see* Yun, Seok-Min 7 2576
Lee, Kyu-Wang, *see* Harris, Stephen J. 9 3203
Lee, Sang-Min, *see* Kim, Dong-Myung 1 93
Lee, Sang-Min; Kim, Dong-Myung; Yu, Ji-Sang; Jang, Kuk-Jin; Lee, Jai-Young 6 1953
The Effect of Annealing on the Discharge Characteristics of a Zr-V-Mn-Ni Hydrogen Storage Alloy
Lee, Sangbong B.; Kim, J. O.; Ritz, K. N.; Opsal, J.; Oh, Hoon-Jung; Woo, Sang-Ho; Shin, Seung-Woo; Han, Il-Keoun; Yang, Hong-Seon 11 3935
Optical Monitoring of Capacitance in Hemispherical Grain Polycrystalline Silicon for Advanced Dynamic Random Access Memory Application
Lee, Se-Hee; Gao, Wei; Tracy, C. Edwin; Branz, Howard M.; Benson, David K.; Deb, Satyen 10 3545
Monolithic, Self-Powered Photovoltaic-Electrochromic Coating for Windows
Lee, Seung-Mahn, *see* Singh, Rajiv K. 11 3963
Lee, Sung-Woo; Heo, Du-Chang; Kang, Jin-Kyu; Park, Young-Bae; Rhee, Shi-Woo 8 2900
Microcrystalline Silicon Film Deposition from H2-He-SiH4 Using Remote Plasma Enhanced Chemical Vapor Deposition
Lee, W. P.; Khong, Y. L. 1 329
Laser Microwave Photoconductance Studies of Ultraviolet-Irradiated Silicon Wafers. Effect of Metallic Contamination
Lee, Yuan-Ping; Loong, Sheau-Tan; Zhou, Mei-Sheng; Lu, Yong-Feng 11 3966
Application of Laser-Cleaning Technique for Efficient Removal of Via-Etch-Induced Polymers
Léger, C., *see* Elezgaray, J. 6 2016
Legrand, L.; Chausse, A.; Messina, R. 1 110
Investigations on the Electroreduction of Titanium Chlorides in AlCl3-Dimethylsulfone Electrolyte
Leibovitch, M., *see* Kronik, Leeor 5 1748
Leith, Steven D.; Wang, Weihua; Schwartz, Daniel T. 8 2827
Characterization of Flow-Induced Compositional Structure in Electrodeposited NiFe Composition-Modulated Alloys
Leroux, F., *see* Duncan, M. J. 11 3746
Leskelä, Markku, *see* Ritala, Mikko 8 2914
Leventis, Nicholas; Chen, Muguo; Liapis, Athanasios I.; Johnson, James W.; Jain, Anand 4 L55
Characterization of 3 x 3 Matrix Arrays of Solution-Phase Electrochromic Cells
Levi, E., *see* Aurbach, Doron 9 3024
Levi, E.; Zinigrad, E.; Teller, H.; Levi, M. D.; Aurbach, Doron 10 3440
The Structure of a 3 V LixMnO2 Cathode and Its Change upon Electrochemical Lithiation
Levi, M. D., *see* Aurbach, Doron 9 3024
Levi, M. D., *see* Levi, E. 10 3440
Levy, P.; Bianconi, M.; Correra, Luigi 1 344
Wet Etching of Al2O3 for Selective Patterning of Microstructures Using Ar+ Ion Implantation and H3PO4
Leygraf, Christofer, *see* Aastrup, T. 2 487
Li, A. Z., *see* Zheng, D. W. 5 1668
Li, Binghui, *see* Cao, Lihui 10 3609
Li, G.; Kneer, E. A.; Vermeire, B.; Parks, H. G.; Raghavan, Srini; Jeon, Joong S. 1 241
A Comparative Electrochemical Study of Copper Deposition onto Silicon from Dilute and Buffered Hydrofluoric Acids
Li, G., *see* Cheng, X. 1 352
Li, G., *see* Chen, Y. 12 4317
Li, Hong, *see* Liu, Weifeng 1 59
Li, Lin-Feng; Totir, Dana A.; Vinokur, Natalia; Miller, Barry; Chottiner, Gary; Evans, Edward A.; Angus, John C.; Scherson, Daniel A. 5 L85
Structural, Spectroscopic, and Electrochemical Characterization of Boron-Doped Diamond Films from Different Provenances
Li, S. F. Y., *see* Ng, H. T. 9 3301
Li, Sam F. Y., *see* Dai, Jinxiang 9 3057
Li, T., *see* Peng, X. 2 389
Li, W. Z., *see* Wang, C. S. 8 2751
Li, Wenzhao, *see* Jiang, Yi 2 373
Li, Wenzhao, *see* Wang, Shizhong 6 1932
Li, Zelin; Zeng, Y.; Xie, Q.; Yao, S. 11 3857
Nonlinear Phenomena during the Reduction of Hydrogen Peroxide in Alkaline Solution Involving Mass Transfer
Li, Zhi-Hong, *see* Xiao, Z. X. 4 1360
Liang, H., *see* Chekina, O. G. 6 2100
Liapis, Athanasios I., *see* Leventis, Nicholas 4 L55
Liaw, B. Y., *see* Wang, C. Y. 10 3407
Liaw, B. Y., *see* Gu, W. B. 10 3418
Lillard, R. S.; Scully, John R. 6 2024
Electrochemical Passivation of Ordered NiAl
Lillard, R. S., *see* Hill, M. A. 8 2799
Lillard, R. Scott; Kanner, G. S.; Butt, D. P. 8 2718
The Nature of Oxide Films on Tungsten in Acidic and Alkaline Solutions
Lim, H., *see* Cho, Jaephil 6 1949
Lin, Chuan; Ritter, James A.; Popov, Branko N. 12 4097
Characterization of Sol-Gel-Derived Cobalt Oxide Xerogels as Electrochemical Capacitors
Lin, Ming-Tyang, *see* Yeh, Ching-Fa 1 252
Lin, Sung-Hwa; Liu, Bo-Tau; Chen, Wen-Chang; Hsu, Jyh-Ping 12 4256
Mathematical Modeling of Soft Baking in Photoresist Processing
Lin, Y. C., *see* Wang, M. T. 7 2538
Lin, Y. C., *see* Wang, M. T. 12 4206
Linares, R., *see* MacKenzie, J. D. 7 2581
Lincot, D., *see* Gros-Jean, Mickaël 7 2448
Lincot, Daniel, *see* Peulon, Sophie 3 864
Lindbergh, Göran, *see* Lundqvist, Anton 11 3740
Linkous, Ralph B., *see* Heinisch, Holger H. 4 1351
Litovchenko, V. G.; Efremov, A. A.; Romanyuk, B. N.; Mel'nik, V. P.; Claeys, C. 8 2964
Processes in Ultrathin Buried Oxide Synthesis Stimulated by Low Dose Ion Implantation
Liu, Bo-Tau, *see* Lin, Sung-Hwa 12 4256
Liu, Han-Wen, *see* Cheng, Huang-Chung 10 3590
Liu, Jun, *see* Windisch, Charles F., Jr. 4 1211
Liu, M., *see* Guan, J. 5 1780
Liu, Meilin 1 142
Equivalent Circuit Approximation to Porous Mixed-Conducting Oxygen Electrodes in Solid-State Cells
Liu, Meilin, *see* Cho, Jaephil 6 1949
Liu, Ping, *see* Zhang, Ji-Guang 6 1889
Liu, T.-C.; Pell, W. G.; Conway, Brian E.; Roberson, S. L. 6 1882
Behavior of Molybdenum Nitrides as Materials for Electrochemical Capacitors. Comparison with Ruthenium Oxide
Liu, W.; Kowal, K.; Farrington, Gregory C. 2 459
Mechanism of the Electrochemical Insertion of Lithium into LiMn2O4 Spinels
Liu, Weifeng; Huang, Xuejie; Wang, Zhaoxiang; Li, Hong; Chen, Liquan 1 59
Studies on Stannic Oxide as an Anode Material for Lithium-Ion Batteries
Liu, Yijun, *see* Shinriki, Hiroshi 9 3247
Liu, Ying; Piron, Dominique L. 1 186
Study of Tin Cementation in Alkaline Solution
Llobet, Eduard; Vilanova, Xaivier; Brezmes, Jesús; Sueiras, Jesús E.; Alcubilla, Ramón; Correig, Xavier 5 1772
Steady-State and Transient Behavior of Thick-Film Tin Oxide Sensors in the Presence of Gas Mixtures
Lobnig, Renate E.; Jankoski, C. A. 3 946
Atmospheric Corrosion of Copper in the Presence of Acid Ammonium Sulfate Particles
Loboda, M. J.; Grove, C. M.; Schneider, R. F. 8 2861
Properties of a-SiOx:H Thin Films Deposited from Hydrogen Silsesquioxane Resins
Loewenstein, Lee M.; Mertens, Paul W. 8 2841
Adsorption of Metal Ions onto Hydrophilic Silicon Surfaces from Aqueous Solution: Effect of pH
Löffler, S., *see* Fahrner, Wolfgang R. 5 1786
Loh, F. C., *see* Ng, H. T. 9 3301
Loong, Sheau-Tan, *see* Lee, Yuan-Ping 11 3966
López, F. A., *see* López-Delgado, A. 12 4140
Lopez, Sébastien; Petit, Jean-Pierre; Dunlop, Hugh M.; Butruille, Jean-Rémi; Tourillon, Gérard 3 823
Acid-Base Properties of Passive Films on Aluminum. I. A Photoelectrochemical Study
Lopez, Sébastien; Petit, Jean-Pierre; Tourillon, Gérard; Dunlop, Hugh M.; Butruille, Jean-Rémi 3 829
Acid-Base Properties of Passive Films on Aluminum. II. An X-Ray Photoelectron Spectroscopy and X-Ray Absorption Near Edge Structure Study
López-Delgado, A.; Cano, E.; Bastidas, J. M.; López, F. A. 12 4140
A Laboratory Study of the Effect of Acetic Acid Vapor on Atmospheric Copper Corrosion
Lourenco, A.; Gorenstein, A.; Passerini, S.; Smyrl, W. H.; Fantini, M. C. A.; Tabacniks, M. H. 2 706
Radio-Frequency Reactively Sputtered VOx Thin Films Deposited at Different Oxygen Flows
Lu, D., *see* Sehgal, A. 8 2834
Lu, Jiong-Ping; Hsu, Wei-Yung; Luttmer, J. D.; Magel, L. K.; Tsai, H. L. 2 L21
A New Process for Depositing Tungsten Nitride Thin Films
Lu, Sharon H., *see* Ein-Eli, Yair 4 1238
Lu, Sharon H., *see* Ein-Eli, Yair 10 3383
Lu, X., *see* Chen, C. 1 226
Lu, Yong-Feng, *see* Lee, Yuan-Ping 11 3966
Lundqvist, Anton; Lindbergh, Göran 11 3740
Determination of the Diffusion Coefficient and Phase-Transfer Rate Parameter in LaNi5 and MmNi3.6Co0.8Mn0.4Al0.3 Using Microelectrodes
Lundström, Ingemar, *see* Baranzahi, Amir 10 3401
Luttmer, J. D., *see* Lu, Jiong-Ping 2 L21
Lyon, S. B., *see* Badger, S. J. 12 4074
Ma, Houyi, *see* Wu, Xiaojuan 2 517
Ma, Houyi, *see* Wang, Chao 7 2214
Ma, J. J., *see* Sumner, J. J. 1 107
Macdonald, Digby D., *see* Zhang, Lai 3 898
Macdonald, Digby D.; Ismail, Khaled M.; Sikora, Elzbieta 9 3141
Characterization of the Passive State on Zinc
Macdonald, Digby D., *see* Kriksunov, Leo 12 4107
Macek, M., *see* Orel, Boris 5 1607
MacKenzie, J. D.; Donovan, S. M.; Abernathy, Cammy R.; Pearton, Steve J.; Holloway, P. H.; Linares, R.; Zavada, J.;

Author — Issue — Page

Chai, B. 7 2581
Growth of III-Nitrides on ZnO, LiGaO2, and LiAlO2 Substrates
Madore, C.; Agarwal, P; Landolt, D. 5 1561
Blocking Inhibitors in Cathodic Leveling. III. Electrochemical Impedance Spectroscopy Study
Madore, C., *see* Piotrowski, O. 7 2362
Madou, M., *see* Kim, J. 7 2314
Maeda, H., *see* Shiozawa, Katsuomi 5 1684
Maeda, Susumu, *see* Abe, Keisei 1 319
Maeda, Susumu; Kato, Masaki; Abe, Keisei; Nakanishi, Hideo; Hoshikawa, Keigo; Terashima, Kazutaka 7 2548
Evaporation of Oxygen-Containing Species from Boron-Doped Silicon Melts
Maex, K., *see* Baklanov, Mikhail R. 9 3240
Magel, L. K., *see* Lu, Jiong-Ping 2 L21
Mah, Dennie T., *see* Vreeke, Mark S. 10 3668
Maier, J., *see* Jamnik, J. 5 1762
Maier, Joachim, *see* Fleig, Jürgen 6 2081
Maiti, Bikas, *see* Hegde, Rama I. 1 L13
Maleki, H., *see* Hong, Jong-Sung 5 1489
Maleki, Hossein; Cojocaru, Claudiu D.; Brett, Christopher M. A.; Jenkins, Gwyn M.; Selman, J. R. 3 721
Changes in the Electrochemical Behavior of Polymeric Carbon Induced by Heat-Treatment and Doping with Lithium Ions
Maly, K., *see* Kuhmann, J. F. 6 2138
Man, K., *see* Fahrner, Wolfgang R. 5 1786
Manessis, Dionissios; Du, Honghua; Larker, Richard 4 1355
Oxidation Studies of Silicon Oxynitride Ceramics
Mangelinck, D.; Hellberg, P.-E.; Zhang, S.-L.; d'Heurle, F. M. 7 2530
Boron in Polycrystalline SixGe1-x Films. Phase Diagram and Solid Solubility
Mani, S. S., *see* Casady, Jeffrey B. 4 L58
Manivannan, V., *see* Padhi, A. K. 5 1518
Manorama, S. V., *see* Sarala Devi, G. 3 1039
Mansfeld, F.; Chen, C.; Breslin, C. B.; Dull, D. 8 2792
Sealing of Anodized Aluminum Alloys with Rare Earth Metal Salt Solutions
Mansour, Azzam N.; Melendres, Carlos A.; Wong, Joe 4 1121
In Situ X-Ray Absorption Spectroscopic Study of Electrodeposited Nickel Oxide Films during Redox Reactions
Manthiram, Arumugam, *see* Kim, J. 4 L53
Mäntylä, T., *see* Büchler, M. 2 378
Mantz, Robert, *see* Fuller, Joan 1 24
Mao, D.; Ibrahim, M. A.; Frank, Arthur J. 1 121
A Plasticized Polymer-Electrolyte-Based Photoelectrochemical Solar Cell
Mao, Ou; Dunlap, R. A.; Courtney, Ian A.; Dahn, Jeff R. 12 4195
In Situ Mossbauer Effect Studies of the Electrochemical Reaction of Lithium with Mechanically Alloyed Sn2Fe
Marcus, P., *see* Maurice, Vincent 3 909
Marin, G. B., *see* Weerts, W. L. M. 4 1318
Marinovic, A., *see* Metikos-Hukovic, M. 12 4045
Markovsky, Boris, *see* Aurbach, Doron 9 3024
Márquez, Andrés; Vargas, Ariel; Balbuena, Perla B. 10 3328
Computational Studies of Lithium Intercalation in Model Graphite in the Presence of Tetrahydrofuran
Marrec, Philippe, *see* Fabre, Bruno 12 4110
Marsan, Benoît, *see* Fradette, N. 7 2320
Martensson, Per; Carlsson, Jan-Otto 8 2928
Atomic Layer Epitaxy of Copper. Growth and Selectivity in the Cu(II)-2,2,6,6-tetramethyl-3,5-heptanedionate/H2 Process
Mårtensson, Per, *see* Baranzahi, Amir 10 3401
Martin, Charles R., *see* Kuwabata, Susumu 5 1415
Martin, Charles R., *see* Kuwabata, Susumu 8 2707
Martínez, M. A., *see* Bayón, Rocío 8 2775
Maruyama, Toshio, *see* Akashi, Takaya 6 2090
Maruyama, Toshiro; Akagi, Hisao 4 1303
Thin Films of Amorphous Germanium-Tin Alloys Prepared by Radio-Frequency Magnetron Sputtering
Maruyama, Toshiro; Shinyashiki, Yoshitaka 8 2955
Solar Cells Coated with Fluorescent Coloring Agent
Masetti, Enrico, *see* Varsano, Francesca 12 4212
Masi, Maurizio, *see* Cavallotti, Carlo 12 4332
Masnari, N. A., *see* Sun, Jie 6 2131
Mason, A., *see* Bhattacharya, R. N. 10 3435
Masqueller, Christian, *see* Tabuchi, Mitsuhara 4 L49
Mastragostino, M., *see* Appetecchi, G. B. 12 4126
Mastragostino, M., *see* Appetecchi, G. B. 12 4133
Mastromatteo, E., *see* Rao, Nagaraja P. 6 2051
Masui, Hitoshi; Murray, Royce W. 11 3788
Diode-Like Property of Prussian Blue Films Containing Concentration Gradients in Serial Mixed Valent Layers
Mateescu, Mircea Alexandru, *see* Ciureanu, Mariana 2 533
Matlosz, M., *see* Ben Farah, M. 10 3550
Matlosz, Michael, *see* Desprez, Philippe 1 165
Matson, R. J., *see* Bhattacharya, R. N. 10 3435
Matsubara, Eichiro, *see* Uekawa, Eiji 2 523
Matsuda, K., *see* Yokota, Katsuhiro 3 1028
Matsukiyo, Hidetsugu; Suzuki, Teruki; Yamada, Hiromichi; Yamamoto, Hajime 1 270
Reduction of Electron-Beam Induced Degradation by Rare Earth Doping in Y3(Al,Ga)5O12:Tb Phosphors
Matsumoto, Osamu, *see* Itoh, Ken-ichi 8 2895
Matsumoto, Satoru, *see* Zaitsu, Y. 1 258
Matsumoto, Takeshi, *see* Abe, Keisei 1 319
Matsuo, Yoshiaki; Hashimoto, K.; Sugie, Y.; Nakamura, T.; Tsunoda, J. 9 3067
Micromachining of Tin Oxide Film by Electrochemical Reduction Process
Matsuoka, Tomizo, *see* Oshio, Shozo 11 3898
Matsuoka, Tomizo, *see* Oshio, Shozo 11 3903
Matsushita, Koichi; Suzuki, Naoki; Okuyama, Sumio; Okuyama, Katsuro 4 1381
Hydrophobicity of a Hydrochloric-Treated GaAs Surface Analyzed by Contact Angle Measurement
Matsuura, Takashi, *see* Watanabe, Takeshi 12 4252
Matsuzaki, K.; Horasawa, T.; Tada, G.; Saga, M. 12 4296
Application of a Semi-insulating Amorphous Hydrogenated Silicon Nitride Film as a Resistive Field Shield and Its Reliability
Mattos, Oscar R., *see* Barcia, Oswaldo E. 12 4189
Maurice, Vincent; Yang, W. P.; Marcus, P. 3 909
X-Ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study of Passive Films Formed on (100) Fe-18Cr-13Ni Single-Crystal Surfaces
Maurin, G., *see* Devos, O. 2 401
Maurin, G., *see* Bouet, V. 2 436
Maurin, G., *see* Gabrielli, Claude 7 2386
Mazin, V., *see* Divisek, J. 8 2677
Mazouz, Nadia; Flätgen, Georg; Krischer, Katharina; Kevrekidis, Ioannis G. 7 2404
The Impact of the Operation Mode on Pattern Formation in Electrode Reactions. From Potentiostatic to Galvanostatic Control
McBreen, J., *see* Mukerjee, S. 2 466
McBreen, J., *see* Ein-Eli, Yair 4 1238
McBreen, J., *see* Lee, H. S. 8 2813
McBreen, J., *see* Ein-Eli, Yair 10 3383
McCarthy, A. J.; Coleman, R. G.; Nicol, M. J. 2 408
The Mechanism of the Oxidative Dissolution of Colloidal Gold in Cyanide Media
McCready, David E., *see* Armstrong, Timothy R. 12 4282
McCreery, Richard L., *see* Zhao, Jun 7 2258
McCreery, Richard L., *see* Xia, Lin 9 3083
McCurdy, Patrick R.; Truitt, Jason M.; Fisher, Ellen R. 9 3271
Comparison of Oxidation Rates for a-Si1-xCx:H Films Deposited from Pulsed and Continuous Wave RF Plasmas
McDevitt, Stephen F., *see* Ein-Eli, Yair 1 L1
McGee, Michael, *see* Bradley, Jean-Claude 3 L45
McHenry, Dennis, *see* Schmidt, Douglas S. 3 892
McHugo, S. A., *see* Hieslmair, Henry 12 4259
McHugo, Scott A.; Weber, E. R.; Myers, S. M.; Petersen, G. A. 4 1400
Gettering of Iron to Implantation Induced Cavities and Oxygen Precipitates in Silicon
McKittrick, Joanna, *see* Shea, L. E. 9 3165
McLarnon, Frank, *see* Zhuang, Guorong 1 159
McLarnon, Frank, *see* Kong, Fanping 4 1174
McLarnon, Frank, *see* Kostecki, Robert 7 2380
McMurry, P., *see* Rao, Nagaraja P. 6 2051
Meas Vong, Y., *see* Trejo, G. 12 4090
Mehta, Karun, *see* Hong, Seong Jae 2 638
Meincke, H.; Ebling, D. G.; Heinze, J.; Tacke, M.; Böttner, H. 8 2806
Potentiostatic Oxide Formation on Lead Selenide Single Crystals in Alkaline Solutions
Melendres, Carlos A., *see* Mansour, Azzam N. 4 1121
Mel'nik, V. P., *see* Litovchenko, V. G. 8 2964
Menachem, C., *see* Peled, E. 10 3482
Ménard, Hugues, *see* Dabo, Pierre 9 3150
Merienne, E., *see* Devos, O. 12 4135
Mertens, P. W., *see* De Gendt, Stefan 7 2589
Mertens, Paul W., *see* Loewenstein, Lee M. 8 2841
Messina, R., *see* Legrand, L. 1 110
Metikos-Hukovic, M.; Babic, R.; Marinovic, A. 12 4045
Spectrochemical Characterization of Benzotriazole on Copper
Metselaar, J. W., *see* Budaguan, B. G. 7 2508
Meulenkamp, Eric A., *see* Bressers, Peter M. M. C. 7 2225
Meulenkamp, Eric A. 8 2759
An Electrochemical Cell for Simultaneous In Situ X-Ray Diffraction and Optical Measurements
Michaud, P. T.; Babic, D. 11 4040
A Raman Study of Etching Silicon in Aqueous Tetramethylammonium Hydroxide
Michel, J., *see* Norga, Gerd J. 7 2602
Midha, Vikas; Economou, Demetre J. 10 3569
A Two-Dimensional Model of Chemical Vapor Infiltration with Radio-Frequency Heating. II. Strategies to Achieve Complete Densification
Miki, Shin-ichro, *see* Gilmore, Damian 2 621
Miller, Barry, *see* Li, Lin-Feng 5 L85
Milovzorov, Dmitri; Inokuma, T.; Kurata, Y.; Hasegawa, S. 10 3615
Relationship Between Structural and Optical Properties in Polycrystalline Silicon Films Prepared at Low Temperature by Plasma-Enhanced Chemical Vapor Deposition
Minami, Hiroaki, *see* Ishihara, Tatsumi 9 3177
Minowa, Kyoko, *see* Shimizu, Hirofumi 7 2523
Mirabedini, Mohammad R., *see* Heinisch, Holger H. 4 1351
Mischler, S.; Debaud, S.; Landolt, Dieter 3 750
Wear-Accelerated Corrosion of Passive Metals in Tribocorrosion Systems
Mishima, Y.; Mitsuyasu, H.; Ohtaki, M.; Eguchi, Koichi 3 1004
Solid Oxide Fuel Cell with Composite Electrolyte Consisting of Samaria-Doped Ceria and Yttria-Stabilized Zirconia
Mitaral, Shun, *see* Onishi, Shigeo 7 2563
Mitchell, John A., *see* Tierney, Brian J. 9 3110
Mitsuyasu, H., *see* Mishima, Y. 3 1004
Mitton, D. B., *see* De Rosa, L. 11 3830
Miura, Taka-aki, *see* Niwano, Michio 2 659
Miyake, Masayasu 7 2534
Enhanced Diffusion of Boron in Si during Doping from Borosilicate Glass
Miyamoto, Nobuo, *see* Niwano, Michio 2 659
Miyatake, Hiroshi, *see* Yonekura, Kazumasa 7 2480
Mizusaki, J., *see* Onuma, Shigenori 9 3117
Mizusaki, Junichiro, *see* Onuma, Shigenori 3 920
Mizusaki, Junichiro, *see* Kawamura, Ken-ichi 7 2552
Moayed, M. H., *see* Laycock, Nick J. 8 2822
Mogensen, M., *see* Winkler, J. 4 1184
Mogensen, Mogens, *see* Aaberg, Rolf Jarle 7 2244
Mogensen, Mogens, *see* Primdahl, Soren 7 2431
Mohiuddin, T. F., *see* Williams, David E. 8 2664
Mohney, S. E., *see* Wolter, Scott D. 3 829
Molina, F. V., *see* Florit, M. I. 10 3530
Monahov, B., *see* Pavlov, D. 1 70
Monetta, T., *see* De Rosa, L. 11 3830
Monguchi, Takuo; Fujioka, H.; Ono, K.; Oshima, M.; Senkawa, T.; Hayashi, T.; Horiuchi, K.; Yamashita, S.; Yoshii, K.; Baba, Y. 7 2241
Structural and Optical Characterization of Porous 3C-SiC
Monnier, Alain, *see* Winter, Martin 2 428
Moran, Patrick J., *see* Shifler, David A. 7 2396
Mori, Hirotaro, *see* Torimoto, Tsukasa 6 1964
Mori, Masashi; Yamamoto, Tohru; Itoh, Hibiki; Inaba, Hideaki; Tagawa, Hiroaki 4 1374
Thermal Expansion of Nickel-Zirconia Anodes in Solid Oxide Fuel Cells during Fabrication and Operation
Mori, Mitsuhiro; Naruoka, Yoshinori; Naoi, Katsuhiko; Fauteux, Denis 7 2340
Modification of the Lithium Metal Surface by Nonionic Polyether Surfactants: Quartz Crystal Microbalance Studies
Morita, Hiroshi; Mugikura, Y.; Izaki, Y.; Watanabe, T.; Abe, T. 5 1511
Model of Cathode Reaction Resistance in Molten Carbonate Fuel Cells
Morrison, Philip W., Jr.; Taweechokesupsin, Oranut 9 3212
Calculation of Gas Spectra for Quantitative Fourier Transform Infrared Spectroscopy of Chemical Vapor Deposition
Moshkovich, M., *see* Aurbach, Doron 8 2929
Motupally, Sathya; Streinz, Christopher C.; Weidner, John W. 1 29
Proton Diffusion in Nickel Hydroxide. Prediction of Active Material Utilization
Motupally, Sathya; Jain, Mukul; Srinivasan, Venkat; Weidner, John W. 1 34
The Role of Oxygen at the Second Discharge Plateau of Nickel Hydroxide
Moyer, P. J., *see* James, P. I. 4 L54
Mugikura, Y., *see* Morita, Hiroshi 5 1511
Mukerjee, S.; Thurston, T. R.; Jisrawi, N. M.; Yang, X. Q.; McBreen, J.; Daroux, M. L.; Xing, X. K. 2 466

Author	Issue	Page
Structural Evolution of LixMn2O4 in Lithium-Ion Battery Cells Measured In Situ Using Synchrotron X-Ray Diffraction Techniques		
Mukerjee, Sanjeev, *see* Ein-Eli, Yair	4	1238
Mukerjee, Sanjeev, *see* Ein-Eli, Yair	10	3383
Müller, Frank, *see* Jessensky, O.	11	3735
Müller, G., *see* Hilgendorff, M.	10	3632
Müller, M., *see* Buchhold, R.	11	4012
Müller, Robert; Heinze, J.; Lamberts, L.; Christiaens, L.	2	541
The Electrochemical Oxidation of 1,4-Bis(methylseleno)benzene (Selenium Analog of Wurster's Blue) in Acetonitrile		
Müller, Robert; Heinze, J.	4	1227
Direct Electrochemical Detection of C60 in Solution by Steady-State Voltammetry at Microelectrodes		
Murach, Bryan L., *see* Barton, Scott A. Calabrese	11	3783
Murai, Akihiko, *see* Nishizawa, Jun-ichi	8	2905
Murakami, Hiroki, *see* Gilmore, Damien	2	621
Murakami, T., *see* Shiozawa, Katsuomi	5	1684
Murarka, Shyam P., *see* Kallingal, C. G.	5	1790
Murarka, Shyam P., *see* Kallingal, C. G.	6	2074
Murase, Kuniaki, *see* Uekawa, Eiji	2	523
Murata, Kenji, *see* Kawata, Hiroaki	5	1701
Muratov, V. A.; Olsen, J. E.; Gallois, B. M.; Fischer, T. E.; Bean, J. C.	7	2465
Tribochemical Reactions of Silicon: An In Situ Infrared Spectroscopy Characterization		
Murota, Junichi, *see* Watanabe, Takeshi	12	4252
Murowinski, R., *see* Kolev, P.	9	3258
Murray, Royce W., *see* Masui, Hitoshi	11	3788
Musiani, Marco M.; Guerriero, Paolo	2	549
Electrodeposited Tl2O3-Matrix Composites. I. Effect of the Dispersed Phase on Nucleation and Growth of the Matrix		
Musiani, Marco M.; Furlanetto, Ferdinando; Guerriero, Paolo	2	555
Electrodeposited Tl2O3-Matrix Composites. II. Electrocatalysis of Oxygen Evolution Reaction on Tl2O3/Co3O4 Composites		
Mussini, Patrizia R., *see* Rondinini, Sandra	4	1108
Muthusubramanian, Venkatesh, *see* Weston, Alan	2	503
Myers, S. M., *see* McHugo, Scott A.	4	1400
Myrick, Michael L.; Noll, J. D.; Nicholson, M. A.	1	179
Modeling of Growth Morphology of Underpotential Electropolymerization of Pyrrole on Graphite		
Myrick, Michael L., *see* Noll, J. D.	10	3320
Nagarajan, Gowri S.; Van Zee, J. W.; Spotnitz, R. M.	3	771
A Mathematical Model for Intercalation Electrode Behavior. I. Effect of Particle-Size Distribution on Discharge Capacity		
Nagata, Masaya, *see* Onishi, Shigeo	7	2563
Nagovitsyn, S. P., *see* Obraztsov, A. N.	7	2572
Nahm, Kee Suk, *see* Seol, Young Hun	1	292
Nair, M. T. S.; Peña, Y.; Campos, J.; García, V. M.; Nair, P. K.	6	2113
Chemically Deposited Sb2S3 and Sb2S3-CuS Thin Films		
Nair, P. K., *see* Nair, M. T. S.	6	2113
Naito, Shizuo; Yamamoto, Masahiro; Doi, Minoru; Kimura, Masao	7	2471
High-Temperature Diffusion of Hydrogen and Deuterium in Titanium and Ti3Al		
Nakagawa, Kazuaki; Ohashi, T.	4	1344
A Novel Method of CO2 Capture from High Temperature Gases		
Nakagawa, O. S., *see* Divecha, Rajesh R.	3	1052
Nakagiri, Yasushi, *see* Taniguchi, Noboru	5	1744
Nakajima, Tsuyoshi, *see* Shinriki, Hiroshi	9	3247
Nakamura, Sadako, *see* Komaba, Shinichi	4	1126
Nakamura, T., *see* Matsuo, Yoshiaki	9	3067
Nakamura, Y., *see* Fukunaka, Y.	11	3814
Nakamura, Yoshinobu; Zhuang, Honxia; Kishimoto, Akira; Okada, Osamu; Yanagida, Hiroaki	2	632
Enhanced CO and CO2 Gas Sensitivity of the CuO/ZnO Heterocontact Made by Quenched CuO Ceramics		
Nakanishi, Hideo, *see* Abe, Keisei	1	319
Nakanishi, Hideo, *see* Maeda, Susumu	7	2548
Nakano, H., *see* Lee, C.-G.	8	2747
Nakayama, M., *see* Ogura, Kotaro	10	3351
Nakayama, M., *see* Ogura, K.	11	3801
Nakladal, A., *see* Buchhold, R.	11	4012
Nalimova, Vera A., *see* Bindra, Chetna	7	2377
Nam, Kee-Soo, *see* Kwon, Kwang-Ho	3	1044
Nanko, Makoto, *see* Akashi, Takaya	6	2090
Naoi, Katsuhiko, *see* Mori, Mitsuhiro	7	2340
Naruoka, Yoshinori, *see* Mori, Mitsuhiro	7	2340
Naumovich, E. N., *see* Kharton, Vladislav V.	4	1363
Navi, Mitra; Dunham, Scott T.	7	2545
Investigation of Boron Penetration Through Thin Gate Dielectrics Including Role of Nitrogen and Fluorine		
Nayar, V., *see* Uren, M. J.	2	683
Nazar, L. F., *see* Duncan, M. J.	11	3746
Nazarov, A.; Thierry, Dominique	3	L39
Analysis of Surface Carbon Contamination on Phosphated Zinc Surfaces by Scanning Kelvin Probe Measurements		
Nenasheva, L. A., *see* Dultsev, F. N.	7	2569
Nesper, Reinhard, *see* Spahr, Michael E.	2	421
Nesper, Reinhard, *see* Spahr, Michael E.	4	1113
Neudecker, B. J.; Zuhr, R. A.; Kwak, B. S.; Bates, J. B.; Robertson, J. D.	12	4148
Lithium Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of Thin Films and Bulk Phases		
Neudecker, Bernd J.; Zuhr, R. A.; Robertson, J. D.; Bates, John B.	12	4160
Lithium Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies on Thin-Film Batteries		
Neumann-Spallart, Michael, *see* Königstein, Christian	1	337
Neureither, Bernhard, *see* Elbel, Norbert	5	1659
Newman, John, *see* Perry, Mike L.	1	5
Newman, John, *see* Darling, Robert	3	990
Newman, John, *see* Drake, Javit A.	5	1578
Newman, John, *see* Ta, Kathryn Podolski	11	3860
Newman, R. C., *see* Laycock, N. J.	4	1101
Newman, R. C., *see* Ryan, M. P.	5	1566
Newman, R. C., *see* Laycock, Nick J.	8	2622
Ng, H. T.; Li, S. F. Y.; Chan, L.; Loh, F. C.; Tan, K. L.	9	3301
Sequential Observation of Electroless Copper Deposition via Noncontact Atomic Force Microscopy		
Nguyen, B., *see* Trejo, G.	12	4090
Nguyen, Paul P.; Pearson, D. H.; Tonucci, R. J.; Babcock, K.	1	247
Fabrication and Characterization of Uniform Metallic Nanostructures Using Nanochannel Glass		
Nguyen, T. K., *see* Belkouch, Said	7	2489
Nguyen, Trung Van, *see* Yi, Jung S.	4	1149
Niazimbetova, Zukhra; Treimer, Stephen E.; Evans, Dennis H.; Guzei, Ilia; Rheingold, Arnold L.	8	2768
Cathodically Promoted Addition of Nitromethane to Aldehydes and Exploratory Studies of the Mechanism of the Electrochemical Reduction of the Nitroolefins so Produced		
Nicholson, M. A., *see* Myrick, Michael L.	1	179
Nicholson, M. A., *see* Noll, J. D.	10	3320
Nicol, M. J., *see* McCarthy, A. J.	2	408
Nicole, J., *see* Tsiplakides, D.	3	905
Nigara, Y., *see* Onuma, Shigenori	9	3117
Nigara, Yutaka, *see* Onuma, Shigenori	3	920
Nigara, Yutaka, *see* Kawamura, Ken-ichi	7	2552
Niizeki, Yoshio; Shibata, Shigoe	7	2445
Room Temperature Operating Solid-State Sensor for Chlorine Gas		
Nijhawan, S., *see* Rao, Nagaraja P.	6	2051
Nilson, Robert H., *see* Griffiths, Stewart K.	4	1263
Nisancioglu, Kemal, *see* Svensson, Ann Mari	4	1390
Nisancioglu, Kemal, *see* Svensson, Ann Mari	9	3130
Nishiguchi, Hiroyasu, *see* Ishihara, Tatsumi	9	3177
Nishiki, Yoshinori, *see* Katsuki, Nobuyuki	7	2358
Nishikitani, Yoshinori, *see* Kubo, Takaya	5	1729
Nishina, T., *see* Lee, C.-G.	8	2747
Nishiyama, Hiroshi, *see* Torimoto, Tsukasa	6	1964
Nishizawa, Jun-ichi; Oyama, Yutaka	8	2892
Excitation Photocapacitance Study of Ionized Levels in n-Type GaAs Observed during Photoquenching		
Nishizawa, Jun-ichi; Murai, Akihiko; Oyama, Yutaka; Suto, Ken	8	2905
Effects of Stoichiometry and Te Concentration on the Deep Levels in Liquid-Phase Epitaxially Grown n-Type Al0.3Ga0.7As		
Nitzsche, Petra; Lange, Klaus; Schmidt, Bernd; Grigull, Stephan; Kreissig, Ulrich; Thomas, Berthold; Herzog, Karin	5	1755
Ion Drift Processes in Pyrex-Type Alkali-Borosilicate Glass during Anodic Bonding		
Niwa, Hideo, *see* Kouno, Takahiro	6	2164
Niwano, Michio; Miura, Taka-aki; Miyamoto, Nobuo	2	659
Hydrogen Exchange Reaction on Hydrogen-Terminated (100) Si Surface during Storage in Water		
No, Kwangsoo, *see* Han, Sang-Soo	2	652
Noeske, M., *see* Schmidt, Thomas J.	3	925
Noh, J. S., *see* Laycock, N. J.	4	1101
Nohira, T.; Ito, Yasuhiko	3	786
Thermodynamic Properties of Pd-Li Alloys		
Noll, J. D., *see* Myrick, Michael L.	1	179
Noll, J. D.; Nicholson, M. A.; Van Patten, P. G.; Chung, C.-W.; Myrick, Michael L.	10	3320
Template Electropolymerization of Polypyrrole Nanostructures on Highly Ordered Pyrolytic Graphite Step and Pit Defects		
Norby, Truls, *see* Karen, Pavel	1	264
Norby, Truls, *see* Amezawa, Koji	10	3313
Norga, Gerd J.; Platero, M.; Black, K. A.; Reddy, A. J.; Michel, J.; Kimerling, L. C.	7	2602
Detection of Metallic Contaminants on Silicon by Surface Sensitive Minority Carrier Lifetime Measurements		
Noskov, A. G., *see* Gorokhov, E. B.	6	2120
Notten, P. H. L., *see* Kruijt, W. S.	11	3764
Notten, P. H. L.; Kruijt, W. S.; Bergveld, H. J.	11	3774
Electronic Network Modeling of Rechargeable Batteries. II. The NiCd System		
Nouaoura, M., *see* Gautier, C.	2	512
Noufi, R. N., *see* Bhattacharya, R. N.	10	3435
Noufi, R., *see* Sebastian, P. J.	10	3613
Novák, Petr, *see* Winter, Martin	2	L27
Novák, Petr, *see* Spahr, Michael E.	2	421
Novák, Petr, *see* Winter, Martin	2	428
Novák, Petr, *see* Imhof, Roman	4	1081
Novák, Petr, *see* Spahr, Michael E.	4	1113
Numano, Masanori, *see* Yagishita, Atsushi	9	3160
Nuzzo, Ralph N., *see* Papapanayiotou, Demetrius	10	3366
Oberholtzer, F., *see* Berkey, Dale P.	2	590
Oblonsky, L. J.; Ryan, M. P.; Isaacs, H. S.	6	1922
In Situ Determination of the Composition of Surface Films Formed on Fe-Cr Alloys		
Obraztsov, A. N.; Pavlovsky, I. Yu.; Volkov, A. P.; Rakova, E. V.; Nagovitsyn, S. P.	7	2572
Electron Field Emission from Chemical Vapor Deposited Diamond Films		
Oda, O., *see* Uchida, Masayuki	3	1048
Odegard, R., *see* Aaberg, Rolf Jarle	7	2244
Odnevall Wallinder, I., *see* Aastrup, T.	2	487
Oesterle, W., *see* Kuhmann, J. F.	6	2138
Ogata, Setsuro, *see* Inoue, Hiroshi	1	138
Ogata, Yukio H., Kato, F.; Tsuboi, T.; Sakka, T.	7	2439
Changes in the Environment of Hydrogen in Porous Silicon with Thermal Annealing		
Ogbuji, Linus U. J. T.	8	2876
Subparabolic Oxidation Behavior of Silicon Carbide at 1300 C		
Ogumi, Zempachi, *see* Funabiki, Atsushi	1	172
Ogumi, Zempachi, *see* Ioroi, Tsutomu	6	1999
Ogumi, Zempachi, *see* Uchimoto, Yoshiharu	12	4277
Ogura, Atsushi	5	1735
Extension of Dose Window for Low-Dose Separation by Implanted Oxygen		
Ogura, K.; Endo, N.; Nakayama, M.	11	3801
Mechanistic Studies of CO2 Reduction on a Mediated Electrode with Conducting Polymer and Inorganic Conductor Films		
Ogura, Kotaro; Shiigi, H.; Nakayama, M.; Fujii, A.	10	3351
Thermogravimetric/Mass and Infrared Spectroscopic Properties and Humidity Sensitivity of Polyaniline Derivatives/Polyvinyl Alcohol Composites		
Oh, Hoon-Jung, *see* Lee, Sangbong B.	11	3935
Oh, Soo-Young, *see* Divecha, Rajesh R.	3	1052
Ohara, Hideo, *see* Uchida, Makoto	11	3708
Ohashi, T., *see* Nakagawa, Kazuaki	4	1344
Ohki, Atushi; Ohmi, Tadahiro; Date, Junichi; Kijima, Takahiko	10	3560
Highly Purified Silane Gas for Advanced Silicon Semiconductor Devices		
Ohmi, Tadahiro, *see* Ohki, Atushi	10	3560
Ohnishi, Shinsuke, *see* Yoshida, Yasuhiro	4	1335
Ohno, Terukazu, *see* Takahashi, Mitsutoshi	5	1795
Ohsaki, Takahisa, *see* Takami, Norio	2	478
Ohsaki, Takashi, *see* Zeghib, Karim	1	210
Ohshika, Katsushi; Yanazawa, Hiroshi; Kuroda, Jun; Kayama, Satoshi; Sasaki, Yukio	1	323
Optimization of SiON Film Compositions for Encapsulation of Refractory Metal Gate GaAs Metal-Semiconductor Field Effect Transistor		
Ohshita, Yoshio; Watanabe, Koji	7	2558
Chemical Reactions in Plasma-Assisted Chemical Vapor Deposition of Titanium		
Ohta, Akira, *see* Uchida, Makoto	11	3708
Ohtaki, M., *see* Mishima, Y.	3	1004
Ohtaki, Michitaka; Ozaki, Misako; Eguchi, Koichi	4	1165
pO2-Dependent Nonohmic Current-Voltage Characteristics and Current-Induced Redox Behavior of Junctioned SrTiO3		
Oikawa, Hideo, *see* Amazawa, Takao	4	1297
Oishi, T., *see* Shiozawa, Katsuomi	5	1684
Okada, Osamu, *see* Nakamura, Yoshinobu	2	632
Okada, Tatsuhiro; Gokita, Masanori; Yuasa, Makoto; Sekine, Isao	3	815
Oxygen Reduction Characteristics of Heat-Treated Catalysts Based on Cobalt-Porphyrin Ion Complexes		
Okamoto, Akira, *see* Hattori, Takeshi	9	3278
Okano, K., *see* Fukunaka, Y.	6	1876
Okawa, Masafumi, *see* Hirota, Kouske	5	L82
Okazaki, Yukio, *see* Itsumi, Manabu	6	2143

Author	Issue	Page
Okuda, Shoji; Shioya, Yoshimi; Kashimada, Hideo	4	1338
Analysis of the Superior Water Blocking Ability of Electron Cyclotron Resonance-Plasma SiO2 Film		
Okumura, Naoya, *see* Ikuma, Yasuro	8	2910
Okuyama, Katsuro, *see* Matsushita, Koichi	4	1381
Okuyama, Sumio, *see* Matsushita, Koichi	4	1381
Olivier, A., *see* Devos, O.	2	401
Olivier, A., *see* Devos, O.	12	4135
Olsen, J. E., *see* Bae, Y. W.	6	1902
Olsen, J. E., *see* Muratov, V. A.	7	2465
Omata, Takahisa, *see* Otsuka-Yao-Matsuo, Shinya	4	1406
Omiya, Kayoko; Kataoka, Yoshinori	12	4323
Effect of Gas Addition on Ozone Ashing		
Onishi, Shigeo; Nagata, Masaya; Mitarai, Shun; Ito, Yasuyuki; Kudo, Jun; Sakiyama, Keizo; Desu, Seshu B.; Bhatt, Hemanshu D.; Vijay, D. P.; Hwang, Y.	7	2563
High Temperature Barrier Electrode Technology for High Density Ferroelectric Memories with Stacked Capacitor Structure		
Ono, K., *see* Monguchi, Takuo	7	2241
Ono, Masaki, *see* Egashira, Makoto	1	229
Onuma, Shigenori; Kaimai, Atsushi; Kawamura, Ken-ichi; Nigara, Yutaka, Kawada, Tatsuya; Mizusaki, Junichiro; Inaba, Hideaki; Tagawa, Hiroaki	3	920
Electrochemical Oxidation in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. I. Determination of the Predominant Reaction Process		
Onuma, Shigenori; Kaimai, Atsushi; Kawamura, Ken-ichi; Nigara, Y.; Kawada, T.; Mizusaki, J.; Inaba, Hideaki; Tagawa, Hiroaki	9	3117
Electrochemical Oxidation in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. II. The Rates of Electrochemical Reactions Taking Place in Parallel		
Opsal, J., *see* Lee, Sangbong B.	11	3935
Oralkan, O., *see* Jackson, J. C.	3	1033
Oralkan, O., *see* Chen, L.	4	1292
Orazem, Mark E., *see* Durbha, Madhav	6	1940
Orel, Boris; Macek, M.; Lavrencic-Stangar, U.; Pihlar, B.	5	1607
Amorphous Nb/Fe-Oxide Ion-Storage Films for Counter Electrode Applications in Electrochromic Devices		
Ortega Borges, R., *see* Trejo, G.	12	4090
Osaka, Tetsuya, *see* Homma, Takayuki	1	134
Osaka, Tetsuya; Komaba, Shinichi; Amano, Akio	2	406
Highly Sensitive Microbiosensor for Creatinine Based on the Combination of Inactive Polypyrrole with Polyion Complexes		
Osaka, Tetsuya, *see* Komaba, Shinichi	4	1126
Osaka, Tetsuya; Higashikawa, Taichi; Iizuka, Atsushi; Takai, Madoka; Kim, Man	7	2419
Study of the Structural Change Due to Heat-Treatment in High Resistivity Electroless NiPC Film		
Osaka, Tsutomu, *see* Hattori, Takeshi	9	3278
Osawa, T., *see* Takeuchi, T.	4	1277
Osburn, C. M., *see* Sun, Jie	6	2131
Oshe, E., *see* Zimina, Tatiana	7	2236
Oshima, M., *see* Monguchi, Takuo	7	2241
Oshio, Shozo; Matsuoka, Tomizo; Tanaka, Shosaku; Kobayashi, Hiroshi	11	3898
Mechanism of Particle Growth of a BaMgAl10O17:Eu2+ Phosphor by Firing with AlF3		
Oshio, Shozo; Matsuoka, Tomizo; Tanaka, Shosaku; Kobayashi, Hiroshi	11	3903
Mechanism of Luminance Decrease in BaMgAl10O17:Eu2+ Phosphor by Oxidation		
Osteryoung, Janet G., *see* Wang, Xiaoping	3	974
Osteryoung, Robert A., *see* Fuller, Joan	1	24
Otsuji, Junhiko, *see* Funabiki, Atsushi	1	172
Otsuka, Kiyoshi, *see* Tsyganok, Audrey I.	11	3844
Otsuka, Toru, *see* Habuka, Hitoshi	12	4264
Otsuka-Yao-Matsuo, Shinya; Izu, Noriya; Omata, Takahisa; Ikeda, Katsuhiko	4	1406
Thermodynamic Behavior of Various Phases Appearing in the CeZrO4-CeZrO3.5 System and the Formation of Metastable Solid Solutions		
Ouma, Dennis O., *see* Divecha, Rajesh R.	3	1052
Ouyang, Chih Sheng; Wang, Chong Mou	8	2654
Clay-Enhanced Electrochemiluminescence and Its Application in the Detection of Glucose		
Owen, J. R., *see* Scott, M. G.	5	1506
Oyama, Noboru, *see* Pope, John M.	6	1893
Oyama, Noboru, *see* Chi, Qijin	7	2369
Oyama, Yutaka, *see* Nishizawa, Jun-ichi	8	2892
Oyama, Yutaka, *see* Nishizawa, Jun-ichi	8	2905
Ozaki, Masahide, *see* Chi, Qijin	7	2369
Ozaki, Misako, *see* Ohtaki, Michitaka	4	1165
Ozanam, F., *see* Emé, Ben H.	2	447
Ozanam, F., *see* Cattarin, Sandro	2	498
Ozanam, F., *see* Chazalviel, J.-N.	3	964
Ozanam, F., *see* Wehrspohn, R. B.	8	2958
Ozil, P., *see* Trejo, G.	12	4090
Ozoe, Hiroyuki, *see* Kakimoto, Koichi	5	1692
Öztürk, Mehmet C., *see* Celik, S. Muhsin	10	3602
Padhi, A. K.; Manivannan, V.; Goodenough, J. B.	5	1518
Tuning the Position of the Redox Couples in Materials with NASICON Structure by Anionic Substitution		
Paik, Woon-kie, *see* Song, Eui-hwan	4	1193
Pai, Uday, *see* Soral, Prashant	1	99
Palacin, M. R., *see* Sac-Epée, N.	5	1434
Pandey, P. C.; Prakash, Rajiv	3	999
Electrochemical Synthesis of Polyindole and Its Evaluation for Rechargeable Battery Applications		
Pandey, P. C.; Prakash, R.	12	4103
Characterization of Electropolymerized Polyindole. Application in the Construction of a Solid-State, Ion-Selective Electrode		
Pang, Stella W., *see* Weigold, J. W.	5	1787
Papapanayiotou, Demetrius; Deligianni, Hariklia; Alkire, Richard C.	9	3016
Effect of Benzotriazole on the Anisotropic Electrolytic Etching of Copper		
Papapanayiotou, Demetrius; Nuzzo, Ralph N.; Alkire, Richard C.	10	3366
Adsorption of Thiourea on Copper Electrodes Monitored by In Situ Infrared Spectroscopy		
Papasouliotis, George D.; Sotirchos, Stratis V.	11	3908
Steady-State Multiplicity Phenomena in the Deposition of Silicon Carbide		
Parent, Michel, *see* Choquette, Yves	10	3500
Park, Heungsoo; Helms, C. R.; Ko, Dae-Hong	5	1724
Effect of Surface Iron on Photoconductivity Carrier Recombination Lifetime of p-Type Silicon		
Park, Hyun Mog; Garvin, C.; Grimard, D. S.; Grizzle, J. W.	12	4247
Control of Ion Energy in a Capacitively Coupled Reactive Ion Etcher		
Park, Ji-Soo, *see* Byun, Jeong Soo	9	3228
Park, Ji-Soo; Byun, Jeong Soo; Sohn, Dong Kyun; Lee, Byung Hak; Park, Jin Won; Kim, Jae-Jeong	10	3585
Dopant Effects on Lateral Silicide Growth in Self-Aligned Titanium Silicide Process		
Park, Jin Won, *see* Park, Ji-Soo	10	3585
Park, Jong-Moon, *see* Kwon, Kwang-Ho	3	1044
Park, Joon-Won, *see* Yun, Jong-Ho	2	L23
Park, May-Young, *see* Yun, Ju-Young	7	2453
Park, Sang-Shik, *see* Yang, Cheol-Hoon	4	1330
Park, Y. D., *see* Lee, J. W.	7	2585
Park, Young-Bae, *see* Lee, Sung-Woo	8	2900
Parks, H. G., *see* Li, G.	1	241
Parks, H. G., *see* Cheng, X.	1	352
Pasquali, M., *see* Antonini, A.	8	2726
Pasquariello, D. M., *see* Abraham, K. M.	2	482
Passerini, S., *see* Coustier, F.	5	L73
Passerini, S., *see* Lourenco, A.	2	706
Patel, V., *see* Grill, A.	5	1649
Pathangey, B., *see* Lee, J. W.	7	2461
Pavia, G., *see* Polignano, Maria Luisa	5	1632
Pavlov, D.; Monahov, B.	1	70
Temperature Dependence of the Oxygen Evolution Reaction on the Pb/PbO2 Electrode		
Pavlovsky, I. Yu., *see* Obraztsov, A. N.	7	2572
Pearson, D. H., *see* Nguyen, Paul P.	1	247
Pearton, S. J., *see* Wang, J. J.	7	2512
Pearton, S. J., *see* Lee, J. W.	7	2585
Pearton, S. J., *see* Jung, K. B.	11	4025
Pearton, S. J., *see* Lee, J. W.	11	4036
Pearton, Steve J., *see* Lee, J. W.	7	2461
Pearton, Steve J., *see* MacKenzie, J. D.	7	2581
Peled, E., *see* Dai, Y.	4	1179
Peled, E.; Golodnitsky, D.; Menachem, C.; Bar-Tow, D.	10	3482
An Advanced Tool for the Selection of Electrolyte Components for Rechargeable Lithium Batteries		
Peli, W. G., *see* Liu, T.-C.	6	1882
Peña, Y., *see* Nair, M. T. S.	6	2113
Peng, X.; Ping, D.; Li, T.; Wu, W.	2	389
Oxidation Behavior of a Ni-La2O3 Codeposited Film on Nickel		
Peramunage, D.; Abraham, K. M.	4	1131
Preparation and Electrochemical Characterization of Overlithiated Spinel LiMn2O4		
Peramunage, D.; Abraham, K. M.	8	2609
Preparation of Micron-Sized Li4Ti5O12 and Its Electrochemistry in Polyacrylonitrile Electrolyte-Based Lithium Cells		
Peramunage, D.; Abraham, K. M.	8	2615
The Li4Ti5O12//PAN Electrolyte/LiMn2O4 Rechargeable Battery with Passivation-Free Electrodes		
Perez, Joelma; Gonzalez, Ernesto R.; Ticianelli, Edson A.	7	2307
Impedance Studies of the Oxygen Reduction on Thin Porous Coating Rotating Platinum Electrodes		
Perron, Gérald, *see* Choquette, Yves	10	3500
Perrot, H., *see* Gabrielli, Claude	7	2386
Perry, Mike L.; Newman, John; Cairns, Elton J.	1	5
Mass Transport in Gas-Diffusion Electrodes: A Diagnostic Tool for Fuel-Cell Cathodes		
Persson, D., *see* Aastrup, T.	2	487
Peter, L. M., *see* Cattarin, Sandro	2	498
Peters, Dennis G., *see* Samide, Michael J.	2	398
Peters, Dennis G., *see* Samide, Michael J.	10	3374
Petersen, G. A., *see* McHugo, Scott A.	4	1400
Peterson, David R.; Winnick, Jack	5	1449
Utilization of Hydrogen Sulfide in an Intermediate-Temperature Ceria-Based Solid Oxide Fuel Cell		
Peterson, Gregory, *see* Faltermeier, Cheryl G.	2	676
Peterson, Gregory G., *see* Lau, Janice E.	12	4271
Petit, Jean-Pierre, *see* Lopez, Sébastien	3	823
Petit, Jean-Pierre, *see* Lopez, Sébastien	3	829
Petrolekas, P. D.; Balomenou, S.; Vayenas, Constantinos G.	4	1202
Electrochemical Promotion of Ethylene Oxidation on Pt Catalyst Films Deposited on CeO2		
Petrolekas, P. D.; Brosda, S.; Vayenas, Constantinos G.	5	1469
Electrochemical Promotion of Pt Catalyst Electrodes Deposited on Na3Zr2Si2PO12 during Ethylene Oxidation		
Petrushina, I. M.; Bjerrum, Niels J.; Cappeln, F.	11	3721
Electrochemical Study on the Cationic Promotion of the Catalytic SO2 Oxidation in Pyrosulfate Melts		
Peulon, Sophie; Lincot, Daniel	3	864
Mechanistic Study of Cathodic Electrodeposition of Zinc Oxide and Zinc Hydroxychloride Films from Oxygenated Aqueous Zinc Chloride Solutions		
Phillips, M. L. F., *see* Shea, L. E.	9	3165
Pickering, Howard W., *see* Cho, Kyehyun	6	1862
Pickering, Howard W., *see* Abdulsalam, Mohammed I.	7	2276
Pihlar, B., *see* Orel, Boris	5	1607
Ping, D., *see* Peng, X.	2	389
Pint, B. A.; Alexander, K. B.	6	1819
Grain Boundary Segregation of Cation Dopants in Alpha-Al2O3 Scales		
Piotrowski, O.; Madore, C.; Landolt, D.	7	2362
The Mechanism of Electropolishing of Titanium in Methanol-Sulfuric Acid Electrolytes		
Piron, Dominique L., *see* Liu, Ying	1	186
Pistoia, G., *see* Antonini, A.	8	2726
Pitner, William R., *see* Tierney, Brian J.	9	3110
Pizzini, S.; Donghi, M.; Binetti, S.; Wagner, G.; Bersani, M.	1	L8
Luminescence from Erbium-Doped Silicon Epi Layers Grown by Liquid-Phase Epitaxy		
Platero, M., *see* Norga, Gerd J.	7	2602
Ploehn, Harry J., *see* Heikonen, Jussi M.	6	1840
Pluth, Joseph J., *see* Steele, Ian M.	2	528
Polignano, Maria Luisa; Brambilla, M.; Cazzaniga, F.; Pavia, G.; Zanderigo, F.	8	1632
Denuded Zone Thickness from Surface Photovoltage Measurements. Comparison with Microscopy Techniques		
Pope, John M.; Oyama, Noboru	6	1893
Organosulfur/Conducting Polymer Composite Cathodes. I. Voltammetric Study of the Polymerization and Depolymerization of 2,5-Dimercapto-1,3,4-thiadiazole in Acetonitrile		
Popov, A. A., *see* Budaguan, B. G.	7	2508
Popov, B. N., *see* Arora, P.	3	807
Popov, B. N., *see* Ramasubramanian, M.	6	1907
Popov, B. N., *see* Haran, Bala S.	9	3000
Popov, B. N., *see* Haran, Bala S.	12	4082
Popov, Branko N., *see* Lin, Chuan	12	4097
Popov, Cyril, *see* Zambov, Ludmil	7	2494
Posadas, D., *see* Florit, M. I.	10	3530
Potts, Russell O., *see* Kurnik, Ronald T.	12	4119
Pound, B. G., *see* Jargelius-Pettersson, R. F. A.	5	1462
Prakash, R., *see* Pandey, P. C.	12	4103
Prakash, Rajiv, *see* Pandey, P. C.	3	999
Preis, W.; Sitte, W.	6	2179
Determination of Chemical Diffusion Coefficients of Mixed Ionic-Electronic Conductors with Arbitrary Electronic Transport Numbers. Application of Impedance, Potentiostatic, and Galvanostatic Methods to Ag1.92Te		
Preuss, A., *see* Kuhmann, J. F.	6	2138
Primdahl, Soren; Mogensen, Mogens	7	2431
Gas Conversion Impedance: A Test Geometry Effect in Characterization of Solid Oxide Fuel Cell Anodes		
Prinz, V. Ya., *see* Gorokhov, E. B.	6	2120
Pritzker, Mark, *see* Schultz, Henning	6	2033
Prosini, P. P., *see* Appetecchi, G. B.	12	4126
Pruette, Laura, *see* Karecki, Simon	12	4305
Pynenburg, Rory A. J., *see* Deng, Charles Z.	4	L61
Qi, Z. F., *see* Wang, C. S.	8	2751
Qian, X. R., *see* Wang, J. J.	7	2512

Author	Issue	Page
Qian, Zaibo, *see* Yang, Ru	7	2231
Ra, Keuk H., *see* Chun, Jang H.	11	3794
Radke, Clayton J., *see* Drake, Javit A.	5	1578
Radosel'sky, A. G., *see* Budaguan, B. G.	7	2508
Ragaie, H. F., *see* Kirah, Kh.	1	332
Raghavan, Srini, *see* Li, G.	1	241
Raghavan, Srini, *see* Cheng, X.	1	352
Rahman, K. M. Anisur, *see* Kelly, James J.	2	492
Rai, Raghaw S., *see* Hegde, Rama I.	1	L13
Rakova, E. V., *see* Obraztsov, A. N.	7	2572
Ramakrishnan, E. S.; Cornett, Kenneth D.; Shapiro, Gary H.; Howng, Wei-Yean Dielectric Properties of Radio Frequency Magnetron Sputter Deposited Zirconium Titanate-Based Thin Films	1	358
Ramanathan, K., *see* Bhattacharya, R. N.	10	3435
Ramasubramanian, M.; Popov, B. N.; White, Ralph E. Characterization of Hydrogen Permeation Through Zinc-Nickel Alloys under Corroding Conditions. Mathematical Model and Experimental Study	6	1907
Ramirez, Silvana; Hillman, A. Robert Electrochemical Quartz Crystal Microbalance Studies of Poly(ortho-toluidine) Films Exposed to Aqueous Perchloric Acid Solutions	8	2640
Rani, R., *see* Wang, J. J.	7	2512
Rao, Nagaraja P.; Nijhawan, S.; Kim, T.; Wu, Z.; Campbell, S.; Kittelson, D.; McMurry, P.; Cheng, C. C.; Mastromatteo, E. Investigation of Particle Generation during the Low-Pressure Chemical Vapor Deposition of Borophosphosilicate Glass Films	6	2051
Rao, V. J., *see* Sarala Devi, G.	3	1039
Rauhala, Eero, *see* Ritala, Mikko	8	2914
Ray, Gary, *see* Divecha, Rajesh R.	3	1052
Reddy, A. J., *see* Norga, Gerd J.	7	2602
Redey, L., *see* Hong, Jong-Sung	5	1489
Reeve, R. W.; Christensen, Paul A.; Hamnett, A.; Haydock, S. A.; Roy, S. C. Methanol Tolerant Oxygen Reduction Catalysts Based on Transition Metal Sulfides	10	3463
Reid, K. G., *see* Hegde, Rama I.	1	L13
Reif, Rafael, *see* Karecki, Simon	12	4305
Reiger, Melissa, *see* Gole, James L.	9	3284
Remy, J. C., *see* Imhoff, L.	5	1672
Ren, F., *see* Lee, J. W.	7	2585
Ren, F., *see* Lee, J. W.	11	4036
Retoux, R., *see* Brousse, T.	1	1
Revesz, A. G., *see* Afanas'ev, V. V.	9	3157
Rey, Isabelle; Bruneel, Jean-Luc; Grondin, Joseph; Servant, Laurent; Lassègues, Jean-Claude Raman Spectroelectrochemistry of a Lithium/Polymer Electrolyte Symmetric Cell	9	3034
Rhee, Shi-Woo, *see* Yun, Jong-Ho	2	L23
Rhee, Shi-Woo, *see* Yun, Ju-Young	7	2453
Rhee, Shi-Woo, *see* Lee, Sung-Woo	8	2900
Rheingold, Arnold L., *see* Niazimbetova, Zukhra	8	2768
Richardson, Tom, *see* Kostecki, Robert	7	2380
Richter, H., *see* Kissinger, Gudrun	5	L75
Riechel, Thomas L., *see* Xie, Jian	8	2660
Rincón, Marina E.; Sánchez, M.; Ruiz-García, J. Photocorrosion of Coupled CdS/CdSe Photoelectrodes Coated with ZnO. Atomic Force Microscopy and X-Ray Diffraction Studies	10	3535
Ritala, Mikko; Leskelä, Markku; Rauhala, Eero; Jokinen, Janne Atomic Layer Epitaxy Growth of TiN Thin Films from TiI4 and NH3	8	2914
Ritter, James A., *see* Lin, Chuan	12	4097
Ritz, K. N., *see* Lee, Sangbong B.	11	3935
Roberson, S. L., *see* Liu, T.-C.	6	1882
Robertson, A. D., *see* Shao-Horn, Yang	1	16
Robertson, J. D., *see* Neudecker, B. J.	12	4148
Robertson, J. D., *see* Neudecker, Bernd J.	12	4160
Robinson, T., *see* Jackson, J. C.	3	1033
Robla, J. I., *see* Horrillo, M. C.	7	2486
Romankiw, L. T., *see* Datta, Madhav	9	3047
Romankiw, L. T., *see* Datta, Madhav	9	3052
Romanyuk, B. N., *see* Litovchenko, V. G.	8	2964
Ronci, F., *see* Appetecchi, G. B.	12	4126
Rondinini, Sandra; Mussini, Patrizia R.; Sello, Guido; Vismara, Elena Glycosyl Halides as Building Blocks for the Electrosynthesis of Glycosides	4	1108
Rooyackers, Rita, *see* Badenes, Goncal	5	1653
Ross, Philip N., Jr., *see* Zhuang, Guorong	1	159
Rosset, R., *see* Gabrielli, Claude	7	2386
Rothenhäusler, Ch., *see* Hilgendorff, M.	10	3632
Roué, Lionel; Blouin, Marco; Guay, Daniel; Schulz, Robert Comparative Study of the Electrochemical Behavior of Polycrystalline and Nanocrystalline Ru Powder in NaOH Solution	5	1624
Rougier, A.; Striebel, Kathryn A.; Wen, S. J.; Cairns, Elton J.	9	2975
Cyclic Voltammetry of Pulsed Laser Deposited LixMn2O4 Thin Films		
Route, R. K., *see* Wu, Yew Sermon	1	366
Roy, S. C., *see* Reeve, R. W.	10	3463
Roy, Sudipta, *see* Green, T. A.	3	875
Ruiz-García, J., *see* Rincón, Marina E.	10	3535
Russ, Benjamin E.; Talbot, Jan B. A Study of the Adhesion of Electrophoretically Deposited Phosphors	4	1245
Russ, Benjamin E.; Talbot, Jan B. An Analysis of the Binder Formation in Electrophoretic Deposition	4	1253
Russell, A. E., *see* Green, T. A.	3	875
Ryan, M. P., *see* Schmuki, Patrik	3	791
Ryan, M. P.; Laycock, N. J.; Newman, R. C.; Isaacs, H. S. The Pitting Behavior of Iron-Chromium Thin Film Alloys in Hydrochloric Acid	5	1566
Ryan, M. P., *see* Oblonsky, L. J.	6	1922
Rys, Andrew, *see* Singh, Nitya N.	1	299
Rzeznik, Maria A., *see* Ein-Eli, Yair	10	3383
Saario, Timo, *see* Bojinov, Martin	6	2043
Sac-Epée, N.; Palacin, M. R.; Delahaye-Vidal, A.; Chabre, Y.; Tarascon, J.-M. Evidence for Direct Gamma-NiOOH Beta-Ni(OH)2 Transitions during Electrochemical Cycling of the Nickel Hydroxide Electrode	5	1434
Sadaoka, Yoshihiko, *see* Aono, Hiromichi	9	2981
Sadoway, D. R., *see* Chiang, Yet-Ming	3	887
Sadowski, H.; Helbig, R. Sublimation Studies of SiC by Using a Quadrupole Mass Spectrometer	10	3556
Saga, Koichiro, *see* Hattori, Takeshi	9	3278
Saga, M., *see* Matsuzaki, K.	12	4296
Sahre, K., *see* Buchhold, R.	11	4012
Saito, Kunio; Arita, Yoshinobu Effect of Fluorine on Surface Morphology in Selective Epitaxial TiSi2 Growth by Plasma-Enhanced Chemical Vapor Deposition	5	1640
Saito, Nobuo, *see* Sato, Fumio	9	3063
Sakaguchi, Isao, *see* Ikuma, Yasuro	8	2910
Sakai, Natsuko, *see* Horita, Teruhisa	9	3198
Sakakibara, Yutaka, *see* Takahashi, Mitsutoshi	5	1795
Sakamori, Shingenori, *see* Yonekura, Kazumasa	7	2480
Sakata, Takao, *see* Torimoto, Tsukasa	6	1964
Sakiyama, Keizo, *see* Hara, Tohru	4	L67
Sakiyama, Keizo, *see* Onishi, Shigeo	7	2563
Sakka, T., *see* Ogata, Yukio H.	7	2439
Sakuraba, Masao, *see* Watanabe, Takeshi	12	4252
Salitra, G., *see* Aurbach, Doron	9	3024
Salkind, A. J., *see* Atwater, Terrill B.	3	L31
Salvador, P.; Alonso-Vante, N.; Tributsch, H. Photoelectrocatalytic Study of Water Oxidation at n-RuS2 Electrodes	1	216
Samec, Zdenek; Trojánek, Antonin; Langmaier, Jan Negative Impedance of the Nafion Membrane Between Two Electrolyte Solutions	8	2740
Samide, Michael J.; Peters, Dennis G. Electrochemical Reduction of 3-Chloro-2,4-pentanedione at Carbon Cathodes in Acetonitrile	2	398
Samide, Michael J.; Peters, Dennis G. Catalytic Reduction of Diphenyl Disulfide by Cobalt(I) Salen Electrogenerated at a Carbon Cathode in Acetonitrile	10	3374
Sánchez, M., *see* Rincón, Marina E.	10	3535
Sanger, P. A., *see* Casady, Jeffrey B.	4	L58
Sankara Narayanan, T. S. N., *see* Franklin, Thomas C.	3	801
Sano, Mitsuru, *see* Inoue, Takao	11	3704
Sarala Devi, G.; Manorama, S. V.; Rao, V. J. SnO2/Bi2O3: A Suitable System for Selective Carbon Monoxide Detection	3	1039
Sarkar, G., *see* Chua, Chee Tee	11	4007
Sasada, Seiichi, *see* Egashira, Makoto	1	229
Sasaki, Keith Y.; Talbot, Jan B. Electrodeposition of Iron-Group Metals and Binary Alloys from Sulfate Baths. I. Experimental Study	3	951
Sasaki, Yukio, *see* Ohshika, Katsushi	1	323
Sassella, A.; Borghesi, A.; Abe, T. Quantitative Evaluation of Precipitated Oxygen in Silicon by Infrared Spectroscopy. Still an Open Problem	5	1715
Sato, Fumio; Saito, Nobuo; Kusano, Jun-ichi; Takizawa, Kuniharu; Kawado, Seiji; Kato, Takanori; Sugiyama, Hiroshi; Kagoshima, Yasushi; Ando, Masami Inner-Shell Electron Excitation Effect on the Structural Change in Amorphous and Crystalline GaAs with Brilliant X-Ray Irradiation Using Synchrotron Radiation	9	3063
Sato, K., *see* Hayafuji, N.	8	2951
Sato, Masayuki, *see* Hara, Tohru	4	L67
Sato, Yasuhiro, *see* Ishii, Hiromu	12	4203
Satoh, Asako, *see* Takami, Norio	2	478
Satoh, Tomomi, *see* Shimizu, Hirofumi	7	2523
Sauleda, Roser, *see* Brillas, Enric	3	759
Savall, André, *see* Belhadj Tahar, N.	10	3427
Saville, P. M., *see* Wilson, R. W.	5	1454
Savinell, Robert F., *see* Gojkovic, S. Lj.	10	3493
Savinell, Robert F., *see* Gojkovic, S. Lj.	11	3713
Sawada, Yoshihiro, *see* Zaghib, Karim	1	210
Sawada, Yutaka, *see* Ikuma, Yasuro	8	2910
Sawaki, Nobuhiko, *see* Shin, Woosuck	7	2458
Sayago, I., *see* Horrillo, M. C.	7	2486
Sayedi, S. M.; Landsberger, L. M.; Kahrizi, M.; Belkouch, S.; Landheer, D. Electrical Characterization of Thin SiO2 Films on Silicon Created by Anodic Oxygen Corona Discharge Processing	8	2937
Sayedi, S. M.; Landheer, D.; Landsberger, L. M.; Kahrizi, M. Mechanisms of Film Growth Rate Enhancement in Anodic and Cathodic Corona-Discharge Oxidation Processes	8	2944
Sazonov, A. Y., *see* Budaguan, B. G.	7	2508
Scheifele, Werner, *see* Spahr, Michael E.	2	421
Scherson, Daniel A., *see* Bae, In Tae	1	80
Scherson, Daniel A., *see* Li, Lin-Feng	5	L85
Schiavon, Gilberto, *see* Zotti, Gianni	2	385
Schilling, Oliver; Dahn, Jeffrey R. Thermodynamic Stability of Chemically Delithiated Li(LixMn2-x)O4	2	569
Schlachetzki, A., *see* Bönsch, P.	4	1273
Schleich, Donald M., *see* Brousse, T.	1	1
Schlichthörl, G., *see* Cattarin, Sandro	2	498
Schmidt, Bernd, *see* Nitzsche, Petra	5	1755
Schmidt, Christine; Strehblow, Hans-Henning The Passivity of Fe/Si Alloys in Aqueous Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron Spectroscopy and Ion Scattering Spectroscopy	3	834
Schmidt, Douglas S.; McHenry, Dennis; Winnick, Jack Lithiated Nickel Oxide Electrode Performance in Molten K2S2O7/V2O5 and K2SO4/V2O5 Systems	3	892
Schmidt, M., *see* Barthel, J.	2	L17
Schmidt, Thomas J.; Noeske, M.; Gasteiger, H. A.; Behm, R. J.; Britz, P.; Bönnemann, H PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. A Combined XPS, AFM, HRTEM, and RDE Study	3	925
Schmidt, Thomas J.; Gasteiger, H. A.; Stäb, G. D.; Urban, P. M.; Kolb, D. M.; Behm, R. J. Characterization of High-Surface-Area Electrocatalysts Using a Rotating Disk Electrode Configuration	7	2354
Schmitz, H., *see* Divisek, J.	8	2677
Schmolke, R., *see* Grätl, D.	1	275
Schmuki, P., *see* Büchler, M.	2	378
Schmuki, P., *see* Büchler, Markus	2	609
Schmuki, Patrik; Virtanen, S.; Isaacs, H. S.; Ryan, M. P.; Davenport, A. J.; Böhni, H.; Stenberg, T. Electrochemical Behavior of Cr2O3/Fe2O3 Artificial Passive Films Studied by In Situ XANES	3	791
Schmutz, P.; Frankel, G. S. Characterization of AA2024-T3 by Scanning Kelvin Probe Force Microscopy	7	2285
Schmutz, P.; Frankel, G. S. Corrosion Study of AA2024-T3 by Scanning Kelvin Probe Force Microscopy and In Situ Atomic Force Microscopy Scratching	7	2295
Schneider, R. F., *see* Loboda, M. J.	8	2861
Schnyder, Bernhard, *see* Spahr, Michael E.	4	1113
Schoene, Andrew, *see* Harris, Stephen J.	9	3203
Schram, T.; De Laet, J.; Terryn, H. Nondestructive Optical Characterization of Chemical Conversion Coatings on Aluminum	8	2733
Schrimpf, T., *see* Bönsch, P.	4	1273
Schröter, W., *see* Istratov, Andrei A.	11	3889
Schuisky, Mikael; Härsta, Anders Chemical Vapor Deposition Stability Diagram for the BiI3-O2 System	12	4234
Schultz, Henning; Pritzker, Mark Modeling the Galvanostatic Pulse and Pulse Reverse Plating of Nickel-Iron Alloys on a Rotating Disk Electrode	6	2033
Schulz, Robert, *see* Roué, Lionel	5	1624
Schwartz, Daniel T., *see* Leith, Steven D.	8	2827
Schwartz, R. W., *see* Xia, C.	1	L4
Scott, Leonard L.; Ding, Youzhen; Stalder, Sloane M.; Kohl, Paul A.; Winnick, Jack; Bottomley, Lawrence A. Electrosynthesis of Sodium Hydrosulfite. I. Development of an Online Process Control Monitor	12	4052
Scott, Leonard L., *see* Ding, Youzhen	12	4057
Scott, Leonard L.; Winnick, Jack; Kohl, Paul A.; Bottomley, Lawrence A. Electrosynthesis of Sodium Hydrosulfite. III. Porous Cathode Materials and Process Model	12	4062
Scott, M. G.; Whitehead, A. H.; Owen, J. R. Chemical Formation of a Solid Electrolyte Interface	5	1506

Author — Issue — Page

on the Carbon Electrode of a Li-Ion Cell
Scrosati, B., see Appetecchi, G. B. 12 4126
Scrosati, B., see Appetecchi, G. B. 12 4133
Scully, J. R., see Kolman, David G. 6 1829
Scully, John R., see Lillard, R. S. 6 2024
Seals, Lenward, see Gole, James L. 9 3284
Sebastian, P. J.; Calixto, M. E.; Bhattacharya, R. N.; Noufi, R. 10 3613
A 10% Cu(In,Ga)Se2 Based Photovoltaic Structure Formed by Electrodeposition and Subsequent Thermal Processing
See, D., see De Vidts, P. 11 3874
Segarra, L., see Cabot, P. L. 5 1502
Sehgal, A.; Lu, D.; Frankel, Gerald S. 8 2834
Pitting in Aluminum Thin Films. Supersaturation and Effects of Dichromate Ions
Seibt, M., see Istratov, Andrei A. 11 3889
Sekai, K., see Akashi, Hiroyuki 3 881
Sekai, Koji, see Endo, Eishi 11 3757
Sekine, Isao, see Okada, Tatsuhiro 3 815
Sello, Guido, see Rondinini, Sandra 4 1108
Selman, J. R., see Maleki, Hossein 3 721
Selman, J. Robert, see Hong, Jong-Sung 5 1489
Sengupta, Susanta K.; Singh, Rajeshwar; Srivastava, Ashok K. 7 2209
A Study on the Origin of Nonfaradaic Behavior of Anodic Contact Glow Discharge Electrolysis. The Relationship Between Power Dissipated in Glow Discharges and Nonfaradaic Yields
Senyarich, Stéphane, see Leblanc, Patrick 3 844
Senzaki, Yoshi 1 362
A New Liquid Precursor with Improved Thermal Stability for Chemical Vapor Deposition of Copper
Seo, Won-Seon, see Shin, Woosuck 7 2456
Seol, Young Hun; Kim, Kwang Chul; Shim, Hyun Wuk; Nahm, Kee Suk; Suh, Eun-Kyung; Lee, Hyung Jae; Kim, Dong-Keun; Lee, Byung-Teak 1 292
Effects of Experimental Parameters on Void Formation in the Growth of 3C-SiC Thin Film on Si Substrate
Seong, Tae-Yeon, see Kim, Do-Geun 6 2095
Serikawa, T., see Monguchi, Takuo 7 2241
Servant, Laurent, see Rey, Isabelle 9 3034
Shao-Horn, Y.; Hackney, S. A.; Johnson, Christopher S.; Thackeray, Michael M. 2 582
Microstructural Features of alpha-MnO2 Electrodes for Lithium Batteries
Shao-Horn, Yang; Ein-Eli, Y.; Robertson, A. D.; Averill, W. F.; Hackney, Steven A.; Howard, W. F., Jr. 1 16
Morphology Modification and Delithiation Mechanisms of LiMn2O4 and Li2MnO3 by Acid Digestion
Shapira, Yoram, see Kronik, Leeor 5 1748
Shapiro, Gary H., see Ramakrishnan, E. S. 1 358
Sharifi, F., see Wang, J. J. 7 2512
Sharifi, F., see Lee, J. W. 7 2585
Shawaqfeh, Ahmad T.; Baltus, Ruth E. 8 2699
Growth Kinetics and Morphology of Porous Anodic Alumina Films Formed Using Phosphoric Acid
Shea, L. E.; McKittrick, Joanna; Phillips, M. L. F. 9 3165
Predicting and Modeling the Low-Voltage Cathodoluminescent Efficiency of Oxide Phosphors
Shen, James J.; Costas, Wesley D.; Cook, Lee M.; Farber, Jeffrey 12 4240
The Effects of Post Chemical Mechanical Planarization Buffing on Defect Density of Tungsten and Oxide Wafers
Sheng, J.; Fukami, T.; Karasawa, J. 5 1592
Anomalous Current Rise and Electrochemical Reduction in Fe2O3-TiO2 Ceramics
Sherchenkov, A. A., see Budaguan, B. G. 7 2508
Shervedani, Reza Karimi; Lasia, Andrzej 7 2219
Study of the Hydrogen Evolution Reaction on Ni-Mo-P Electrodes in Alkaline Solutions
Shi, Guangda; Garfias-Mesias, L. F.; Smyrl, William H. 6 2011
Preparation of a Gold-Sputtered Optical Fiber as a Microelectrode for Electrochemical Microscopy
Shibata, Masami; Yoshida, Kohji; Furuya, Nagakazu 2 595
Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes. III. Simultaneous Reduction of Carbon Dioxide and Nitrite Ions with Various Metal Catalysts
Shibata, Masami; Yoshida, Kohji; Furuya, Nagakazu 7 2348
Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes. IV. Simultaneous Reduction of Carbon Dioxide and Nitrate Ions with Various Metal Catalysts
Shibata, Shigoe, see Niizeki, Yoshio 7 2445
Shibata, T., see Fujimoto, S. 5 L79
Shibayama, T., see Ishihara, Tatsumi 9 3177
Shiffer, David A.; Kruger, Jerome; Moran, Patrick J. 7 2396
Passivity and Breakdown of Carbon Steel in Organic Solvent Mixtures of Propylene Carbonate and Dimethoxyethane
Shih, Han C., see Tsai, S. Y. 6 1968
Shiigi, H., see Ogura, Kotaro 10 3351
Shim, Hyun Wuk, see Seol, Young Hun 1 292
Shim, Sang Chul, see Jung, Yongju 9 3123
Shimamune, Takayuki, see Inoue, Hiroshi 1 138
Shimamune, Takayuki, see Katsuki, Nobuyuki 7 2358
Shimazu, Katsuaki, see Ye, Shen 5 1614
Shimizu, Hirofumi; Isomae, Seiichi; Minowa, Kyoko; Satoh, Tomomi; Suzuki, Tadashi 7 2523
Gravitational Stress-Induced Dislocations in Large-Diameter Silicon Wafers Studied by X-Ray Topography and Computer Simulation
Shimizu, K., see Echeverria, F. 9 3011
Shimizu, T., see Zaitsu, Y. 1 258
Shimizu, Yasuhiro, see Egashira, Makoto 1 229
Shimogaki, Y., see Chae, Y. K. 12 4226
Shimomura, Kouji, see Shinriki, Hiroshi 9 3247
Shin, Myoungsun, see Wurm, D. Brad 5 1483
Shin, Seung-Woo, see Lee, Sangbong B. 11 3935
Shin, Woosuck; Hikosaka, Tetsuya; Seo, Won-Seon; Ahn, Hyung Soo; Sawaki, Nobuhiko; Koumoto, Kunihito 7 2456
Fibrous and Porous Microstructure Formation in 6H-SiC by Anodization in HF Solution
Shinriki, Hiroshi; Sugiura, Masahito; Liu, Yijun; Shimomura, Kouji; Nakajima, Tsuyoshi 9 3247
Ethanol-Addition-Enhanced, Chemical Vapor Deposited Tantalum Oxide Films from Ta(OC2H5)5 and Oxygen Precursors
Shinyashiki, Yoshitaka, see Maruyama, Toshiro 8 2955
Shioya, Yoshimi, see Okuda, Shoji 4 1338
Shiozawa, Katsuomi; Oishi, T.; Maeda, H.; Murakami, T.; Yasumura, K.; Abe, Y.; Tokuda, Y. 5 1684
Excellent Electrical Characteristics of Ultrafine Trench Isolation
Shirai, Hiroshi; Akai, Kenji; Abe, Toshio 5 1720
Thickness Measurements of Epitaxial Layers of Double Epitaxial Silicon Wafers by Far-Infrared Reflection
Shiraishi, Yuzo, see Akashi, Takaya 6 2090
Shiyanovskaya, I.; Hepel, Maria 3 1023
Isotopic Effects in Cation-Injected Electrochromic Films
Shiyanovskaya, Irina; Hepel, Maria 11 3981
Decrease of Recombination Losses in Bicomponent WO3/TiO2 Films Photosensitized with Cresyl Violet and Thionine
Shuangbao, Li, see Kharton, Vladislav V. 4 1363
Shul, R. J., see Lee, J. W. 11 4036
Shyu, Suh-Ching; Wang, Chong Mou 1 154
Characterizations of Iron-Containing Clay Modified Electrodes and Their Applications for Glucose Sensing
Sides, Paul J., see Guelcher, Scott A. 6 1848
Sieradzki, K., see West, W. C. 9 2971
Siergiej, R. R., see Casady, Jeffrey B. 4 L58
Sigala, C., see Blyr, A. 1 154
Sikora, Elzbieta, see Zhang, Lei 3 898
Sikora, Elzbieta, see Macdonald, Digby D. 9 3141
Sikora, Janusz, see Zhang, Lei 3 898
Simmons, J. G., see Wang, J. 8 2931
Simoen, E., see Claeys, C. 6 2058
Simoen, E., see Czerwinski, A. 6 2107
Simoes, A. M. P., see Hakiki, N. E. 11 3821
Simonet, Jacques, see Fabre, Bruno 12 4110
Singh, Deepika 1 116
Characteristics and Effects of gamma-NiOOH on Cell Performance and a Method to Quantify It in Nickel Electrodes
Singh, Nitya N.; Rys, Andrew 1 299
Electrical Characterization of 6H-SiC Metal Oxide Semiconductor Structures at High Temperature
Singh, Rajendra, see Chen, Y. 12 4317
Singh, Rajeshwar, see Sengupta, Susanta K. 7 2209
Singh, Rajiv K., see Cho, K. G. 10 3456
Singh, Rajiv K.; Jung, Soon-Moon; Lee, Seung-Mahn; Hummel, Rolf E. 11 3963
Novel Method for the Formation of Large-Grained, Silicon Thin Films on Amorphous Substrates
Sinn, Dong-Sook, see Yoo, Han-Ill 3 1008
Sinno, Talid; Brown, Robert A.; von Ammon, W.; Dornberger, Erich 1 302
Point Defect Dynamics and the Oxidation-Induced Stacking-Fault Ring in Czochralski-Grown Silicon Crystals
Siow, Kok-Siong, see Dai, Jinxiang 9 3057
Sitte, W., see Preis, W. 6 2179
Skeldon, P., see Echeverria, F. 9 3011
Sklovsky, Dmitry E., see Bindra, Chetna 7 2377
Slougui, Nacer, see Choquette, Yves 10 3500
Smalbrugge, E., see Buda, Manuela 3 1076
Smith, Bradley C., see Courtney, Clay H. 11 3957
Smyrl, W. H., see Lourenco, A. 2 706
Smyrl, William H., see James, P. I. 4 L64
Smyrl, William H., see Coustier, F. 5 L73
Smyrl, William H., see Alodan, Maher A. 3 957
Smyrl, William H., see Alodan, Maher A. 5 1571
Smyrl, William H., see Garfias-Mesias, L. F. 6 2005
Smyrl, William H., see Shi, Guangda 6 2011
Soavi, F., see Appetecchi, G. B. 12 4126
Soavi, F., see Appetecchi, G. B. 12 4133
Södervall, Ulf, see Hermansson, Karin 5 1645
Sohn, Dong Kyun, see Park, Ji-Soo 10 3585
Sohn, Dong-Kyun, see Byun, Jeong Soo 9 3228
Solomentsev, Yuri E., see Guelcher, Scott A. 6 1848
Song, Eui-hwan; Paik, Woon-kie 4 1193
Properties of Polyphenylquinoxaline Acid Complex as an Electrode Material
Song, Li; Evans, James W. 7 2327
The Thermal Stability of Lithium Polymer Batteries
Song, X., see Kim, J. 7 2314
Soral, Prashant; Pal, Uday; Worrell, Wayne L. 1 99
Comparison of Power Densities and Chemical Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolytes
Sotirchos, Stratis V., see Papasouliotis, George D. 11 3908
Sotomura, Tadashi, see Chi, Qijin 7 2369
Spahr, Michael E.; Novák, Petr; Scheifele, Werner; Haas, Otto; Nesper, Reinhard 2 421
Electrochemistry of Chemically Lithiated NaV3O8: A Positive Electrode Material for Use in Rechargeable Lithium-Ion Batteries
Spahr, Michael E.; Novák, Petr; Schnyder, Bernhard; Haas, Otto; Nesper, Reinhard 4 1113
Characterization of Layered Lithium Nickel Manganese Oxides Synthesized by a Novel Oxidative Coprecipitation Method and Their Electrochemical Performance as Lithium Insertion Electrode Materials
Spanhel, Lubomir, see Hilgendorff, M. 10 3632
Sparks, Terry, see Karecki, Simon 12 4305
Speers, Edward A.; Cahoon, J. R. 6 1812
Deposition of Silica Films Using Electrochemical Procedures
Spetz, Anita Lloyd, see Baranzahi, Amir 10 3401
Speyer, Robert F., see Agarwal, Gaurav 8 2920
Spotnitz, R. M., see Nagarajan, Gowri S. 3 771
Srinivasan, Venkat, see Motupally, Sathya 1 34
Srivastava, A., see Sun, Jie 6 2131
Srivastava, Ashok K., see Sengupta, Susanta K. 7 2209
Stäb, G. D., see Schmidt, Thomas J. 7 2354
Stafford, Gery R., see Tierney, Brian J. 9 3110
Stalder, Sloane M., see Scott, Leonard L. 12 4052
Stalder, Sloane M., see Ding, Youzhen 12 4057
Stasiak, M., see Wróbel, A. M. 3 1060
Stathis, J. H., see Uren, M. J. 2 683
Stchakovsky, M., see Erné, Ben H. 2 447
Steele, Ian M.; Pluth, Joseph J. 2 528
Crystal Structure of Tetrabasic Lead Sulfate (4PbO.PbSO4). An Intermediate Phase in the Production of Lead-Acid Batteries
Stein, David J.; Hetherington, Dale; Guilinger, Terry; Cecchi, Joseph L. 9 3190
In Situ Electrochemical Investigation of Tungsten Electrochemical Behavior during Chemical Mechanical Polishing
Steinmetz, J., see Steyer, Ph. 9 3183
Stenberg, T., see Büchler, M. 2 378
Stenberg, T., see Schmuki, Patrik 3 791
Stephens, Samuel G., see Bradley, Jean-Claude 3 L45
Stesmans, A., see Afanas'ev, V. V. 9 3157
Stevenson, Jeffry W., see Armstrong, Timothy R. 12 4282
Steyer, Ph.; Steinmetz, J.; Hilger, J. P. 9 3183
The Effect of the Lead Alloy Hardening Process in Electric Vehicle Storage Batteries on Corrosion Resistance
Stickney, J. L., see Colletti, Lisa P. 5 1442
Stickney, J. L., see Colletti, Lisa P. 10 3594
Stimming, U., see Divisek, J. 8 2677
Stine, Brian E., see Divecha, Rajesh R. 3 1052
Stoyanova, R., see Alcántara, R. 3 730
Strandberg, Helena; Johansson, Lar-Gunnar 4 1093
Some Aspects of the Atmospheric Corrosion of Copper in the Presence of Sodium Chloride
Strehblow, Hans-Henning, see Schmidt, Christine 3 834
Streinz, Christopher C., see Motupally, Sathya 1 29
Striebel, Kathryn A., see Rougier, A. 9 2975
Strubbe, K., see Vereecken, P. M. 9 3075
Stryahilev, D. A., see Budaguan, B. G. 7 2508
Stumper, J., see Cattarin, Sandro 2 498
Sueiras, Jesús E., see Llobet, Eduard 5 1772
Sugawara, Yasushi, see Uchida, Makoto 11 3708
Sugie, Y., see Matsuo, Yoshiaki 9 3067
Sugimoto, Katsuhisa, see Kim, Hyunsoo 8 2818
Sugiura, Masahito, see Shinriki, Hiroshi 9 3247

Author	Issue	Page
Sugiyama, Hiroshi, *see* Sato, Fumio	9	3063
Suh, Eun-Kyung, *see* Seol, Young Hun	1	292
Suh, Min Chul, *see* Jung, Yongju	9	3123
Suhren, M., *see* Gräf, D.	1	275
Suk, Chang-Gil, *see* Lee, Jong Myeong	3	1066
Sumner, J. J.; Creager, S. E.; Ma, J. J.; DesMarteau, Darryl D.	1	107
Proton Conductivity in Nafion 117 and in a Novel Bis[(perfluoroalkyl)sulfonyl)]imide Ionomer Membrane		
Sun, I-Wen, *see* Jeng, Eric Gi-Shong	4	1196
Sun, Jie; Bartholomew, R. F.; Bellur, K.; Srivastava, A.; Osburn, C. M.; Masnari, N. A.; Westhoff, R.	6	2131
Parasitic Resistance Considerations of Using Elevated Source/Drain Technology for Deep Submicron Metal Oxide Semiconductor Field Effect Transistors		
Sun, R. D.; Tryk, D. A.; Hashimoto, K.; Fujishima, A.	10	3378
Formation of Catalytic Pd on ZnO Thin Films for Electroless Metal Deposition		
Sun, Yang-Kook, *see* Kim, Dong-Won	6	1958
Sunde, Svein, *see* Svensson, Ann Mari	4	1390
Sung, Hsi-yueh; Wang, Yung-yun; Wan, Chi-chao	4	1207
Preparation and Characterization of Poly(vinyl chloride-co-vinyl acetate)-Based Gel Electrolytes for Li-Ion Batteries		
Suni, Ian Ivar, *see* Chopra, Dinesh	4	L60
Suni, Ian Ivar, *see* Chopra, Dinesh	5	1688
Supriyatno, Heru, *see* Aono, Hiromichi	9	2981
Suto, Ken, *see* Nishizawa, Jun-ichi	8	2905
Suzuki, Hiroaki, *see* Uchida, Hiroyuki	2	615
Suzuki, Kunihiro, *see* Aoyama, Takayuki	2	689
Suzuki, Mitsuru, *see* Homma, Takayuki	1	134
Suzuki, Naoki, *see* Matsushita, Koichi	4	1381
Suzuki, Tadashi, *see* Shimizu, Hirofumi	7	2523
Suzuki, Teruki, *see* Matsukiyo, Hidetsugu	1	270
Svensson, Ann Mari; Sunde, Svein; Nisancioglu, Kemal	4	1390
Mathematical Modeling of Oxygen Exchange and Transport in Air-Perovskite-Yttria-Stabilized Zirconia Interface Regions. II. Direct Exchange of Oxygen Vacancies		
Svensson, Ann Mari; Nisancioglu, Kemal	9	3130
Current Distribution at Porous Electrodes-Solid Oxide Electrolyte Interface		
Svensson, J.-E., *see* Falk, Torgny	1	39
Svensson, J.-E., *see* Falk, Torgny	9	2993
Swenberg, Johanes, *see* Byun, Jeong Soo	11	3941
Szumilewicz, J., *see* Wróbel, A. M.	3	1060
Ta, Kathryn Podolski; Newman, John	11	3860
Mass Transfer and Kinetic Phenomena at the Nickel Hydroxide Electrode		
Tabacniks, M. H., *see* Faria, I. C.	1	235
Tabacniks, M. H., *see* Lourenco, A.	2	706
Tabuchi, Mitsuhara; Ado, Kazuaki; Kobayashi, Hironori; Kageyama, Hiroyuki; Masquelier, Christian; Kondo, Aturo; Kanno, Ryoji	4	L49
Synthesis of LiMnO2 with alpha-NaMnO2-Type Structure by a Mixed-Alkaline Hydrothermal Reaction		
Tacke, M., *see* Meincke, H.	8	2806
Tada, G., *see* Matsuzaki, K.	12	4296
Tada, Yoko, *see* Aoyama, Takayuki	2	689
Tagawa, Hiroaki, *see* Onuma, Shigenori	3	920
Tagawa, Hiroaki, *see* Mori, Masashi	4	1374
Tagawa, Hiroaki, *see* Onuma, Shigenori	9	3117
Tago, Teruoki; Kawase, Motoaki; Yoshihara, Yasuhide; Hashimoto, Kenji	7	2516
Growth Kinetics of Chemical Vapor Deposition of Beta-SiC from (CH3)2SiCl2/Ar		
Tai, T. L., *see* Kuo, Yue	12	4313
Tajima, M., *see* Uchida, Masayuki	3	1048
Tajiri, Hirotaka, *see* Ichimura, Masaya	9	3265
Takahashi, Eietsu, *see* Katsuki, Nobuyuki	7	2358
Takahashi, Mitsutoshi; Sakakibara, Yutaka; Ohno, Terukazu	5	1795
Recombination Centers Created by Ar+-Ion Implantation into SIMOX Substrates		
Takahashi, Takahiro; Hagiwara, Katsunori; Komiyama, Hiroshi; Egashira, Yasuyuki	3	1070
The Effects of Gas-Phase Additives NH3, NO, and NO2 on SiH4/O2 Chemical Vapor Deposition		
Takai, Madoka, *see* Osaka, Tetsuya	7	2419
Takami, Norio; Satoh, Asako; Ohsaki, Takahisa; Kanda, Motoya	2	478
Large Hysteresis during Lithium Insertion into and Extraction from High-Capacity Disordered Carbons		
Takano, Hiromichi, *see* Yokota, Katsuhiro	3	1028
Takao, Yuji, *see* Egashira, Makoto	1	229
Takehara, Zen-ichiro, *see* Ioroi, Tsutomu	6	1999
Takehara, Zen-ichiro, *see* Uchimoto, Yoshiharu	12	4277
Takeuchi, J., *see* Zaitsu, Y.	1	258
Takeuchi, T.; Egashira, Y.; Osawa, T.; Komiyama, H.	4	1277
A Kinetic Study of the Chemical Vapor Deposition of Silicon Carbide from Dichlorodimethylsilane Precursors		
Takita, Yusaku, *see* Ishihara, Tatsumi	9	3177
Takizawa, Kuniharu, *see* Sato, Fumio	9	3063
Takuwa, Atsushi, *see* Tasaka, Akimasa	4	1160
Talbot, Jan B., *see* Sasaki, Keith Y.	3	981
Talbot, Jan B., *see* Russ, Benjamin E.	4	1245
Talbot, Jan B., *see* Russ, Benjamin E.	4	1253
Tamada, Janet, *see* Kumik, Ronald T.	12	4119
Tan, K. L., *see* Ng, H. T.	9	3301
Tanabe, Jun, *see* Akashi, Takaya	6	2090
Tanaka, K. i., *see* Akashi, Hiroyuki	3	881
Tanaka, Koichi, *see* Endo, Eishi	11	3757
Tanaka, Shosaku, *see* Oshio, Shozo	11	3898
Tanaka, Shosaku, *see* Oshio, Shozo	11	3903
Tang, T. A., *see* Zheng, D. W.	5	1668
Taniguchi, Noboru; Yasumoto, Eiichi; Nakagiri, Yasushi; Gamo, Takaharu	5	1744
Sensing Properties of an Oxygen Sensor Using BaCe0.8Gd0.2O3-alpha Ceramics as Electrolytes		
Taniguchi, T., *see* Yamashita, K.	1	45
Tarascon, J.-M., *see* Blyr, A.	1	194
Tarascon, J.-M., *see* Du Pasquier, A.	2	472
Tarascon, J.-M., *see* Sac-Epée, N.	5	1434
Tarascon, J.-M., *see* Grugeon-Dewaele, S.	10	3358
Tarascon, J.-M., *see* Larcher, D.	10	3392
Tasaka, Akimasa, *see* Funabiki, Atsushi	1	172
Tasaka, Akimasa; Kawagoe, Tomoo; Takuwa, Atsushi; Yamanaka, Masako; Tojo, Tetsuro; Aritsuka, Makoto	4	1160
Effect of Anode Materials on NF3 Formation		
Tashiro, Hiroko, *see* Aoyama, Takayuki	2	689
Tato, W.; Landolt, D.	12	4173
Electrochemical Determination of the Porosity of Single and Duplex PVD Coatings of Titanium and Titanium Nitride on Brass		
Tatsuma, Tetsu, *see* Chi, Qijin	7	2369
Tatsumi, Kuniaki, *see* Zaghib, Karim	1	210
Taweechokesupsin, Oranut, *see* Morrison, Philip W., Jr.	9	3212
Teller, H., *see* Aurbach, Doron	9	3024
Teller, H., *see* Levi, E.	10	3440
Terada, Kouichiro, *see* Yokota, Katsuhiro	3	1028
Terashima, Kazutaka, *see* Abe, Keisei	1	319
Terashima, Kazutaka, *see* Maeda, Susumu	7	2548
Terryn, H., *see* Schram, T.	8	2733
Teyssandier, Francis; Allendorf, Mark D.	6	2167
Thermodynamics and Kinetics of Gas-Phase Reactions in the Ti-Cl-H System		
Thackeray, Michael M., *see* Shao-Horn, Y.	2	582
Thackeray, Michael M., *see* Ein-Eli, Yair	4	1238
Thewes, Roland, *see* Weber, Werner	10	3638
Thiandoume, C.; Angermeier, D.; Gorochov, O.	8	2887
Modeling and Process Optimization of ZnSe and ZnS Epitaxial Growth in a Vertical Metallorganic Vapor-Phase Epitaxy Reactor		
Thierry, Dominique, *see* Nazarov, A.	3	L39
Thomas, Berthold, *see* Nitzsche, Petra	5	1755
Thomas, C. L., *see* Dahn, Jeffrey R.	3	851
Thompson, D. A., *see* Wang, J.	8	2931
Thompson, G. E., *see* Echeverria, F.	9	3011
Thompson, William J.	2	L20
Transformation of Colored Random Noise by Kronig-Kramers Transforms		
Thurston, T. R., *see* Mukerjee, S.	2	466
Ticianelli, Edson A., *see* Perez, Joelma	7	2307
Tierney, Brian J.; Pitner, William R.; Mitchell, John A.; Hussey, Charles L.; Stafford, Gery R.	9	3110
Electrodeposition of Copper and Copper-Aluminum Alloys from a Room-Temperature Chloroaluminate Molten Salt		
Tikhonovich, V. N., *see* Kharton, Vladislav V.	4	1363
Ting, Kuo-Chiang, *see* Hsu, Jyh-Ping	4	1088
Tirado, José L., *see* Alcántara, R.	3	730
Tobias, Peter, *see* Baranzahi, Amir	10	3401
Tobin, Philip J., *see* Hegde, Rama I.	1	L13
Toda, Takako; Igarashi, Hiroshi; Watanabe, Masahiro	12	4185
Role of Electronic Property of Pt and Pt Alloys on Electrocatalytic Reduction of Oxygen		
Tojo, Tetsuro, *see* Tasaka, Akimasa	4	1160
Tokuda, Y., *see* Shiozawa, Katsuomi	5	1684
Tokutomi, Kentaro, *see* Hoshino, Katsuyoshi	2	711
Tomaszewski, D., *see* Czerwinski, A.	6	2107
Tomii, Y., *see* Fukunaka, Y.	6	1876
Tomii, Yoichi, *see* Kondoh, Junya	5	1527
Tomii, Yoichi, *see* Kondoh, Junya	5	1536
Tomii, Yoichi, *see* Kondoh, Junya	5	1550
Tomii, Yoichi, *see* Amezawa, Koji	6	1986
Tomozawa, M., *see* Kalingal, C. G.	5	1790
Tonucci, R. J., *see* Nguyen, Paul P.	1	247
Topol, A., *see* Lau, Janice E.	12	4271
Torcheux, L., *see* Grugeon-Dewaele, S.	10	3358
Tori, C. A., *see* Visintin, A.	12	4169
Torimoto, Tsukasa; Nishiyama, Hiroshi; Sakata, Takao; Mori, Hirotaro; Yoneyama, Hiroshi	6	1964
Characteristic Features of Size-Selective Photoetching of CdS Nanoparticles as a Means of Preparation of Monodisperse Particles		
Totir, Dana A., *see* Li, Lin-Feng	5	L85
Tourillon, Gérard, *see* Lopez, Sébastien	3	823
Tourillon, Gérard, *see* Lopez, Sébastien	3	829
Toyoda, Mayumi, *see* Katsuki, Nobuyuki	7	2358
Tracy, C. Edwin, *see* Zhang, Ji-Guang	6	1889
Tracy, C. Edwin, *see* Lee, Se-Hee	10	3545
Treimer, Stephen E., *see* Niazimbetova, Zukhra	8	2768
Trejo, G.; Ortega Borges, R.; Meas Vong, Y.; Ozil, P.; Chainet, E.; Nguyen, B.	12	4090
Nucleation and Growth of Zinc from Chloride Concentrated Solutions		
Triaca, W. E., *see* Visintin, A.	12	4169
Tribollet, Bernard, *see* Barcia, Oswaldo E.	12	4189
Tributsch, H., *see* Salvador, P.	1	216
Tricoli, Vincenzo	11	3798
Proton and Methanol Transport in Poly(perfluorosulfonate) Membranes Containing Cs+ and H+ Cations		
Trojánek, Antonin, *see* Samec, Zdenek	8	2740
Tromans, Desmond	3	L42
Aqueous Potential-pH Equilibria in Copper-Benzotriazole Systems		
Tromans, Desmond; Ahmed, Tawfik	2	601
Active/Passive Behavior of Copper in Strong Sulfuric Acid		
Truitt, Jason M., *see* McCurdy, Patrick R.	9	3271
Trulove, P. C., *see* Carlin, Richard T.	5	1598
Tryk, D. A., *see* Yano, T.	8	1870
Tryk, D. A., *see* Sun, R. D.	10	3378
Tryk, Donald A., *see* Hirota, Kouske	5	L82
Tsai, H. L., *see* Lu, Jiong-Ping	2	L21
Tsai, K. C., *see* Deng, Charles Z.	4	L61
Tsai, M. S.; Tseng, Tseung Yuen	8	2853
Conduction Mechanism and Temperature-Dependent Current-Voltage in (Ba, Sr)TiO3 Thin Films		
Tsai, S. Y.; Shih, Han C.	5	1968
Correlation Between Acoustic Emission Signals and Hydrogen Permeation in High Strength, Low Alloy Steel Cracking in Wet H2S		
Tsai, Tsepin; Barnett, Scott A.	5	1696
Effect of Mixed-Conducting Interfacial Layers on Solid Oxide Fuel Cell Anode Performance		
Tsang, Yuk L.; Fitzgibbon, Gregory	5	1677
The Effect of Low-Pressure and Plasma-Enhanced Chemical Vapor Deposited Tetraethylorthosilicate Oxide Film on a Boron Implant Profile		
Tseng, Tseung Yuen, *see* Tsai, M. S.	8	2853
Tsiplakides, D.; Nicole, J.; Vayenas, C. G.; Comninellis, Ch.	3	905
Work Function and Catalytic Activity Measurements of an IrO2 Film Deposited on YSZ Subjected to In Situ Electrochemical Promotion		
Tsuboi, T., *see* Ogata, Yukio H.	7	2439
Tsumura, Naohiro, *see* Kuwabata, Susumu	5	1415
Tsunoda, Hitoshi, *see* Habuka, Hitoshi	12	4264
Tsunoda, J., *see* Matsuo, Yoshiaki	9	3067
Tsutsumi, Kazushi, *see* Uchimoto, Yoshiharu	12	4277
Tsyganok, Audrey I.; Yamanaka, Ichiro; Otsuka, Kiyoshi	11	3844
Pd-Loaded Carbon Felt as the Cathode for Selective Dechlorination of 2,4-Dichlorophenoxyacetic Acid in Aqueous Solution		
Tu, Shuo-Lun, *see* Chuang, Jui-Chang	12	4290
Tuenge, R. T., *see* Lau, Janice E.	12	4271
Tunold, Reidar, *see* Aaberg, Rolf Jarle	7	2244
Turgoose, S., *see* Badger, S. J.	12	4074
Turner, John A., *see* Zhang, Ji-Guang	6	1889
Turner, John A., *see* Khaselev, Oscar	10	3335
Uchida, Hiroyuki; Suzuki, Hiroaki; Watanabe, Masahiro	2	615
High-Performance Electrode for Medium-Temperature Solid Oxide Fuel Cells. Effects of Composition and Microstructures on Performance of Ceria-Based Anodes		
Uchida, Hiroyuki, *see* Watanabe, Masahiro	4	1137
Uchida, Isamu, *see* Lee, C.-G.	8	2747
Uchida, Makoto; Fukuoka, Yuko; Sugawara, Yasushi; Ohara, Hideo; Ohta, Akira	11	3708
Improved Preparation Process of Very-Low-Platinum-Loading Electrodes for Polymer Electrolyte Fuel Cells		
Uchida, Masayuki; Oda, O.; Warashina, M.; Tajima, M.	3	1048
Photoluminescence of Semi-insulating InP Wafers Prepared by Two-Step Wafer Annealing		
Uchimoto, Yoshiharu, *see* Ioroi, Tsutomu	6	1999
Uchimoto, Yoshiharu; Tsutsumi, Kazushi; Ioroi, Tsutomu; Ogumi, Zempachi; Takehara, Zen-ichiro	12	4277
Kinetics of Vapor-Phase Electrolytic Deposition of Yttria-Stabilized Zirconia Thin Films		
Ueda, Y., *see* Zaman, H.	2	565

Author	Issue	Page
Uekawa, Eiji; Murase, Kuniaki; Matsubara, Eichiro; Hirato, Tetsuji; Awakura, Yasuhiro — Determination of Chemical Species and Their Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of Visible Absorption Spectra	2	623
Ueki, Takemi, *see* Itsumi, Manabu	8	2143
Uosaki, Kohei, *see* Ye, Shen	5	1614
Upham, Allan, *see* Faltermeier, Cheryl G.	2	676
Urban, P. M., *see* Schmidt, Thomas J.	7	2354
Urban, W., *see* Casady, Jeffrey B.	4	L58
Urbina, R. Herrera, *see* Larcher, D.	10	3392
Uren, M. J.; Nayar, V.; Brunson, K. M.; Anthony, C. J.; Stathis, J. H.; Cartier, E. — Interface State Capture Cross Section Measurements on Vacuum Annealed and Radiation Damaged Si:SiO2 Surfaces	2	683
Ushiku, Yukihiro, *see* Yagishita, Atsushi	9	3160
Vahlas, Constantin, *see* Davazoglou, Dimitris	4	1310
Vamvakas, Vassilis Em., *see* Davazoglou, Dimitris	4	1310
van de Roer, T. G., *see* Buda, Manuela	3	1076
Vander Poorten, H., *see* Zhou, D. B.	3	936
Van der Ven, Anton; Aydinol, Mehmet K.; Ceder, Gerbrand — First-Principles Evidence for Stage Ordering in LixCoO2	6	2149
Vanhaelemeersch, S., *see* Baklanov, Mikhail R.	9	3240
Vanhellemont, J., *see* Kissinger, Gudrun	5	L75
van Kranenburg, H.; Woerlee, P. H. — Influence of Overpolish Time on the Performance of W Damascene Technology	4	1285
Van Patten, P. G., *see* Noll, J. D.	10	3320
Van Zee, J. W., *see* Nagarajan, Gowri S.	3	771
Vargas, Ariel, *see* Márquez, Andrés	10	3328
Varsano, Francesca; Cahen, David; Decker, Franco; Guillemoles, Jean Francois; Masetti, Enrico — Ion Potential Diagrams for Electrochromic Devices	12	4212
Vartanian, Victor, *see* Karecki, Simon	12	4305
Vasilyeva, L. L., *see* Dultsev, F. N.	7	2569
Vaughey, John T., *see* Ein-Eli, Yair	4	1238
Vayenas, C. G., *see* Tsiplakides, D.	3	905
Vayenas, Constantinos G., *see* Petrolekas, P. D.	4	1202
Vayenas, Constantinos G., *see* Petrolekas, P. D.	5	1469
Vega, L. F., *see* Datta, Madhav	9	3047
Venugopalan, H., *see* Wolter, Scott D.	2	629
Vereecken, P. M.; Strubbe, K.; Gomes, Walter P. — The Electrochemical Behavior of p-Type (100) GaAs in Copper Sulfate Solution. Influence of Surface Conditions	9	3075
Vermeire, B., *see* Li, G.	1	241
Vermeire, B., *see* Cheng, X.	1	352
Vernoux, Philippe; Guindet, J.; Kleitz, M. — Gradual Internal Methane Reforming in Intermediate-Temperature Solid-Oxide Fuel Cells	10	3487
Vidal, Roberto; West, Alan C. — Aluminum and Aluminum Alloy Dissolution in Concentrated Phosphoric Acid	12	4067
Vijay, D. P., *see* Onishi, Shigeo	7	2563
Vilanova, Xaivier, *see* Llobet, Eduard	5	1772
Vinokur, Natalia, *see* Li, Lin-Feng	5	L85
Virden, Jud W., *see* Windisch, Charles F., Jr.	4	1211
Virkar, Anil V., *see* Hong, Seong Jae	2	638
Virtanen, S., *see* Schmuki, Patrik	3	791
Visintin, A.; Tori, C. A.; Garaventta, G.; Triaca, W. E. — The Electrochemical Performance of Pd-Coated Metal Hydride Electrodes with Different Binding Additives in Alkaline Solution	12	4159
Viskup, A. P., *see* Kharton, Vladislav V.	4	1363
Vismara, Elena, *see* Rondinini, Sandra	4	1108
Vleeshouwers, S., *see* Cacciato, A.	2	701
Volfkovich, Yu. M., *see* Divisek, J.	8	2677
Volfkovich, Yu. M., *see* Eikerling, M.	8	2684
Volkov, A. P., *see* Obraztsov, A. N.	7	2572
von Ammon, W., *see* Gräf, D.	1	275
von Ammon, W., *see* Sinno, Talid	1	302
Vos, J. G., *see* Wilson, R. W.	5	1454
Vreeke, Mark S.; Mah, Dennie T.; Doyle, C. M. — Report of the Electrolytic Industries for the Year 1997	10	3668
Vyvenko, O. F., *see* Istratov, Andrei A.	11	3889
Wada, Sachiko, *see* Endo, Akira	3	L35
Wagner, G., *see* Pizzini, S.	1	L8
Wagner, P., *see* Gräf, D.	1	275
Wakita, Shuhei, *see* Katsuki, Nobuyuki	7	2358
Waldrop, James R.; Kendig, M. W. — Nucleation of Chromate Conversion Coating on Aluminum 2024-T3 Investigated by Atomic Force Microscopy	1	L11
Walkiewicz-Pietrzykowska, A., *see* Wróbel, A. M.	3	1060
Walkiewicz-Pietrzykowska, A., *see* Wróbel, Aleksander M.	8	2866
Wan, Chi-chao, *see* Sung, Hsi-yueh	4	1207
Wang, C. C., *see* Wang, M. T.	12	4206
Wang, C. S.; Wu, G. T.; Zhang, X. B.; Qi, Z. F.; Li, W. Z. — Lithium Insertion in Carbon-Silicon Composite Materials Produced by Mechanical Milling	8	2751
Wang, C. Y.; Gu, W. B.; Liaw, B. Y. — Micro-Macroscopic Coupled Modeling of Batteries and Fuel Cells. I. Model Development	10	3407
Wang, C. Y., *see* Gu, W. B.	10	3418
Wang, Chao; Chen, Shenhao; Ma, Houyi — Reactivation of Passivated Iron Electrodes in a Magnetic Field	7	2214
Wang, Chong Mou, *see* Shyu, Suh-Ching	1	154
Wang, Chong Mou, *see* Ouyang, Chih Sheng	8	2654
Wang, Chunsheng — Kinetic Behavior of Metal Hydride Electrode by Means of AC Impedance	6	1801
Wang, Haifeng, *see* Chiang, Yet-Ming	3	887
Wang, Hong; Capuano, G. A. — Behavior of Raipore Radiation-Grafted Polymer Membranes in H2/O2 Fuel Cells	3	780
Wang, J. J.; Childress, J. R.; Pearton, S. J.; Shanfi, F.; Dahmen, K. H.; Gillman, E. S.; Cadieu, F. J.; Rani, R.; Qian, X. R.; Chen, Li — Dry Etch Patterning of LaCaMnO3 and SmCo Thin Films	7	2512
Wang, J.; Thompson, D. A.; Simmons, J. G. — Wet Chemical Etching for V-grooves into InP Substrates	8	2931
Wang, L.; Wang, Q. Q.; Cammarata, V. — Electro-oxidative Polymerization and Spectroscopic Characterization of Novel Amide Polymers Using Diphenylamine Coupling	8	2648
Wang, M. T.; Lin, Y. C.; Chen, M. C. — Barrier Properties of Very Thin Ta and TaN Layers Against Copper Diffusion	7	2538
Wang, M. T.; Lin, Y. C.; Lee, J. Y.; Wang, C. C.; Chen, M. C. — Thin-Film Properties and Barrier Effectiveness of Chemically Vapor Deposited Amorphous WSix Film	12	4206
Wang, Q. Q., *see* Wang, L.	8	2648
Wang, Shizhong, *see* Jiang, Yi	2	373
Wang, Shizhong; Jiang, Yi; Zhang, Yahong; Yan, Jingwang; Li, Wenzhao — The Role of 8 mol % Yttria Stabilized Zirconia in the Improvement of Electrochemical Performance of Lanthanum Manganite Composite Electrodes	6	1932
Wang, Weihua, *see* Leith, Steven D.	8	2827
Wang, Xiaoping; Issaev, Nick; Osteryoung, Janet G. — A Novel Gold Electroplating System: Gold(I)-Iodide-Thiosulfate	3	974
Wang, Y., *see* Dai, Y.	4	1179
Wang, Yang-Yuan, *see* Xiao, Z. X.	4	1360
Wang, Yung-yun, *see* Sung, Hsi-yueh	4	1207
Wang, Zhaoxiang, *see* Liu, Weifeng	1	59
Wang, Zhaoxiang; Huang, Biying; Xue, Rongjian; Chen, Liquan; Huang, Xuejie — Ion Association and Solvation Studies of LiClO4/Ethylene Carbonate Electrolyte by Raman and Infrared Spectroscopy	10	3346
Warashina, M., *see* Uchida, Masayuki	3	1048
Ward, Tim L., *see* Xia, C.	1	L4
Watanabe, Kensuke, *see* Kawamura, Ken-ichi	7	2552
Watanabe, Koji, *see* Ohshita, Yoshio	7	2558
Watanabe, Masahiro, *see* Uchida, Hiroyuki	2	615
Watanabe, Masahiro; Uchida, Hiroyuki; Emori, Masaomi — Analyses of Self-Humidification and Suppression of Gas Crossover in Pt-Dispersed Polymer Electrolyte Membranes for Fuel Cells	4	1137
Watanabe, Masahiro, *see* Toda, Takako	12	4185
Watanabe, Masaki, *see* Itsumi, Manabu	6	2143
Watanabe, Masayoshi, *see* Kono, Michiyuki	5	1521
Watanabe, T., *see* Morita, Hiroshi	5	1511
Watanabe, Takeshi; Ichikawa, Akihiro; Sakuraba, Masao; Matsuura, Takashi; Murota, Junichi — Atomic-Order Thermal Nitridation of Silicon at Low Temperatures	12	4252
Watanabe, Yoshio — Effects of Annealing on Oxygen Depth Profiles and Chemical Etching Rates of Thermally Grown Silicon Oxides	4	1306
Webb, E., III, *see* Garcia, M. E.	6	2155
Weber, E. R., *see* McHugo, Scott A.	4	1400
Weber, E. R., *see* Istratov, Andrei A.	11	3889
Weber, E. R., *see* Hieslmair, Henry	12	4259
Weber, Werner; Thewes, Roland — Experimental Methods for Investigating the Defect Properties of SiO2 in Metal Oxide Semiconductor Transistors	10	3638
Weerts, W. L. M.; de Croon, M. H. J. M.; Marin, G. B. — The Kinetics of the Low-Pressure Chemical Vapor Deposition of Polycrystalline Silicon from Silane	4	1316
Wehrspohn, R. B.; Chazalviel, J.-N.; Ozanam, F. — Macropore Formation in Highly Resistive p-Type Crystalline Silicon	8	2958
Weidner, John W., *see* Motupally, Sathya	1	29
Weidner, John W., *see* Motupally, Sathya	1	34
Weidner, John W., *see* Jha, Kamal	10	3521
Weigold, J. W.; Juan, W. H.; Pang, Stella W. — Dry Etching of Deep Si Trenches for Released Resonators in a Cl2 Plasma	5	1767
Weissman, I., *see* Aurbach, Doron	5	1421
Wen, Ching-Ju, *see* Endo, Akira	3	L35
Wen, S. J., *see* Rougier, A.	9	2975
Wen, Ten-Chin; Chang, Jian-Sheng; Cheng, Tsung-Tien — An Investigation of Composite Electrolytes by Mixing Polyethylene Oxide- and Polytetramethylene Glycol-Based Waterborne Polyurethane with the Addition of LiClO4/Propylene Carbonate	10	3450
West, Alan C., *see* Desprez, Philippe	1	165
West, Alan C., *see* Kelly, James J.	2	492
West, Alan C., *see* Cheng, Chin-Chang	2	560
West, Alan C.; Cheng, Chin-Chang; Baker, B. C. — Pulse Reverse Copper Electrodeposition in High Aspect Ratio Trenches and Vias	9	3070
West, Alan C., *see* Kelly, James J.	10	3472
West, Alan C., *see* Kelly, James J.	10	3477
West, Alan C., *see* Barton, Scott A. Calabrese	11	3783
West, Alan C., *see* Vidal, Roberto	12	4067
West, W. C.; Sieradzki, K.; Kardynal, B.; Kozicki, M. N. — Equivalent Circuit Modeling of the AgAs0.24S0.36Ag0.40Ag System Prepared by Photodissolution of Ag	9	2971
Westhoff, R., *see* Sun, Jie	6	2131
Weston, Alan; Muthusubramanian, Venkatesh — Electro-oxidative Deposition of C60 via Scanning Electrochemical Microscope	2	603
Weyer, G., *see* Kuhmann, J. F.	6	2138
White, R., *see* Kim, J.	7	2314
White, Ralph E., *see* Arora, P.	3	807
White, Ralph E., *see* Heikonen, Jussi M.	6	1840
White, Ralph E., *see* Ramasubramanian, M.	6	1907
White, Ralph E., *see* Haran, Bala S.	9	3000
White, Ralph E., *see* Arora, Pankaj	10	3647
White, Ralph E., *see* De Vidts, P.	11	3874
White, Ralph E., *see* Haran, Bala S.	12	4082
White, S. P., *see* Laycock, N. J.	4	1101
Whitehead, A. H., *see* Scott, M. G.	5	1506
Wickenden, A. E., *see* Wolter, Scott D.	2	629
Wickramanayaka, Sunil, *see* Wróbel, Aleksander M.	8	2866
Wiesner, H., *see* Bhattacharya, R. N.	10	3435
Wilkens, B. J., *see* Bae, Y. W.	6	1902
Williams, David E.; Mohiuddin, T. F.; Zhu, Ying Yang — Elucidation of a Trigger Mechanism for Pitting Corrosion of Stainless Steels Using Submicron Resolution Scanning Electrochemical and Photoelectrochemical Microscopy	6	2864
Willstaedt, E. M., *see* Abraham, K. M.	2	482
Wilson, P. T., *see* Laycock, N. J.	4	1101
Wilson, R. W.; Cubitt, R.; Glidle, A.; Hillman, A. R.; Saville, P. M.; Vos, J. G. — A Neutron Reflectivity Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film Modified Electrodes: Effect of pH and Counterion	5	1454
Winder, Edmund J.; Kuech, T. F.; Ellis, Arthur B. — Photoluminescence Studies of Cadmium Selenide Crystals in Contact with Group III Trialkyl Derivatives	7	2475
Windisch, Charles F., Jr.; Virden, Jud W.; Elder, Scott H.; Liu, Jun; Engelhard, M. H. — Electrochemistry of TiN in 6 M KOH Solution	4	1211
Winkler, J.; Hendriksen, Peter Vang; Bonanos, N.; Mogensen, M. — Geometric Requirements of Solid Electrolyte Cells with a Reference Electrode	4	1184
Winnick, Jack, *see* Schmidt, Douglas S.	3	892
Winnick, Jack, *see* Peterson, David R.	5	1449
Winnick, Jack, *see* Scott, Leonard L.	12	4052
Winnick, Jack, *see* Ding, Youzhen	12	4057
Winnick, Jack, *see* Scott, Leonard L.	12	4062
Winter, Martin; Novák, Petr — Chloroethylene Carbonate, a Solvent for Lithium-Ion Cells, Evolving CO2 during Reduction	2	L27
Winter, Martin; Novák, Petr; Monnier, Alain — Graphites for Lithium-Ion Cells: The Correlation of the First-Cycle Charge Loss with the Brunauer-Emmett-Teller Surface Area	2	428

Author	Issue	Page
Wirth, T., *see* Kuhmann, J. F.	6	2138
Woerlee, P. H., *see* van Kranenburg, H.	4	1285
Wolter, Scott D.; Mohney, S. E.; Venugopalan, H.; Wickenden, A. E.; Koleske, D. D. Kinetic Study of the Oxidation of Gallium Nitride in Dry Air	2	629
Wolverton, Christopher; Zunger, Alex Prediction of Li Intercalation and Battery Voltages in Layered vs. Cubic LixCoO2	7	2424
Wong, Joe, *see* Mansour, Azzam N.	4	1121
Woo, Sang-Ho, *see* Lee, Sangbong B.	11	3935
Wood, G. C., *see* Echeverria, F.	9	3011
Worrell, Wayne L., *see* Soral, Prashant	1	99
Wortman, J. J., *see* Heinisch, Holger H.	4	1351
Wróbel, A. M.; Walkiewicz-Pietrzykowska, A.; Stasiak, M.; Aoki, T.; Hatanaka, Y.; Szumilewicz, J. Reactivity of Alkylsilanes and Alkylcarbosilanes in Atomic Hydrogen-Induced Chemical Vapor Deposition	3	1060
Wróbel, Aleksander M.; Walkiewicz-Pietrzykowska, A.; Wickramanayaka, Sunil; Hatanaka, Yoshinori Mechanism of Amorphous Silica Film Formation from Tetraethoxysilane in Atomic Oxygen-Induced Chemical Vapor Deposition	8	2866
Wu, B., *see* De Vidts, P.	11	3874
Wu, G. T., *see* Wang, C. S.	8	2751
Wu, Guo-Ying, *see* Xiao, Z. X.	4	1360
Wu, Q., *see* Barkey, Dale P.	2	590
Wu, W., *see* Peng, X.	2	389
Wu, Xiaojuan; Ma, Houyi; Chen, Shenhao An Investigation of Faradaic Admittance for Electrode Processes Involving n State Variables Besides Electrode Potential	2	517
Wu, Yew Sermon; Feigelson, R. S.; Route, R. K.; Zheng, D.; Gordon, L. A.; Fejer, M. M.; Byer, R. L. Improved GaAs Bonding Process for Quasi-Phase-Matched Second Harmonic Generation	1	366
Wu, Z., *see* Rao, Nagaraja P.	6	2051
Wüllner, D., *see* Bönsch, P.	4	1273
Wurm, D. Brad; Zong, Kyukwan; Kim, Y.-H.; Kim, Yeon-Taik; Shin, Myoungsun; Jeon, Il Cheol Electrochemical Quartz Crystal Microbalance Studies of Polypyrrole Growth on Self-Assembled Nucleation Sites	5	1483
Xia, C.; Ward, Tim L.; Xu, Chongying; Atanasova, P.; Schwartz, R. W. Fabrication of Ag/Y2O3-Stabilized ZrO2 Composite Films by Metallorganic Chemical Vapor Deposition	1	L4
Xia, Lin; McCreery, Richard L. Chemistry of a Chromate Conversion Coating on Aluminum Alloy AA2024-T3 Probed by Vibrational Spectroscopy	9	3083
Xiang, C. L., *see* Lee, H. S.	8	2813
Xiao, Z. X.; Wu, Guo-Ying; Zhang, Guo-Bing; Li, Zhi-Hong; Hao, Yi-Long; Chen, Wen-Ru; Wang, Yang-Yuan Low Temperature Silicon Wafer-to-Wafer Bonding with Nickel Silicide	4	1360
Xie, Jian; Riechel, Thomas L. Electrochemistry of 1-Ethyl-3-methylimidazolium Chloride in Acetonitrile	8	2660
Xie, Q., *see* Li, Zelin	11	3857
Xing, Weibing; Dunlap, R. A.; Dahn, J. R. Studies of Lithium Insertion in Ballmilled Sugar Carbons	1	62
Xing, X. K., *see* Mukerjee, S.	2	466
Xu, Chongying, *see* Xia, C.	1	L4
Xu, Jun J.; Farrington, Gregory C. Study of Ion-Transport Properties in Polymer Electrolytes Using a Novel Electrochemical Method	3	744
Xu, K.; Angell, C. A. High Anodic Stability of a New Electrolyte Solvent: Unsymmetric Noncyclic Aliphatic Sulfone	4	L70
Xue, Rongjian, *see* Wang, Zhaoxiang	10	3346
Yabumoto, Norikuni, *see* Itsumi, Manabu	6	2143
Yagishita, Atsushi; Fujii, Osamu; Numano, Masanori; Kawamura, Noriyasu; Iwase, Masao; Ushiku, Yukihiro; Arikado, Tsunetoshi Experimental Study of the Degradation of Mechanical Strength of Silicon Wafers Caused by Large Scale Integration Processes	9	3160
Yahalom, J., *see* Khaselev, Oscar	1	190
Yamada, A., *see* Zaman, H.	2	565
Yamada, Atsuo; Goodenough, John B. Keggin-Type Heteropolyacids as Electrode Materials for Electrochemical Supercapacitors	3	737
Yamada, Hiromichi, *see* Matsukiyo, Hidetsugu	1	270
Yamada, Koichi, *see* Endo, Akira	3	L35
Yamada, Masao, *see* Kouno, Takahiro	6	2164
Yamada, Naoki; Yamada-Kaneta, Hiroshi Drastic Improvements of Gate Oxide Reliability by Argon Annealing Compared with Hydrogen Annealing	10	3628
Yamada, T., *see* Fujimoto, S.	5	L79
Yamada-Kaneta, Hiroshi, *see* Yamada, Naoki	10	3628
Yamaji, Katsuhiko, *see* Horita, Teruhisa	9	3196
Yamamoto, Hajime, *see* Matsukiyo, Hidetsugu	1	270
Yamamoto, Masahiro, *see* Naito, Shizuo	7	2471
Yamamoto, Naoichi, *see* Amezawa, Koji	6	1986
Yamamoto, Tohru, *see* Mori, Masashi	4	1374
Yamamoto, Y., *see* Hayafuji, N.	8	2951
Yamanaka, Ichiro, *see* Tsyganok, Audrey I.	11	3844
Yamanaka, Masako, *see* Tasaka, Akimasa	4	1160
Yamashita, K.; Taniguchi, T. Agglomerate Model for DC and AC Response of Phosphoric Acid Fuel Cell Cathode	1	45
Yamashita, S., *see* Monguchi, Takuo	7	2241
Yamazaki, Soichi, *see* Aoyama, Tomonori	8	2961
Yamin, H., *see* Aurbach, Doron	5	1421
Yan, Jingwang, *see* Jiang, Yi	2	373
Yan, Jingwang, *see* Wang, Shizhong	6	1932
Yanagida, Hiroaki, *see* Nakamura, Yoshinobu	2	632
Yanazawa, Hiroshi, *see* Ohshika, Katsushi	1	323
Yang, Cheol-Hoon; Park, Sang-Shik; Yoon, Soon-Gil Temperature Dependence of the Electrical Properties of SrBi2Ta2O9 Thin Films Deposited by Radio-Frequency Magnetron Sputtering	4	1330
Yang, Hong-Seon, *see* Lee, Sangbong B.	11	3935
Yang, Ru; Qian, Zaibo; Deng, Jiaqi Electrochemical Deposition of Prussian Blue from a Single Ferricyanide Solution	7	2231
Yang, W. P., *see* Maurice, Vincent	3	909
Yang, X. Q., *see* Mukerjee, S.	2	466
Yang, X. Q., *see* Lee, H. S.	8	2813
Yang, Xiao Q., *see* Ein-Eli, Yair	10	3383
Yano, T.; Tryk, D. A.; Hashimoto, K.; Fujishima, A. Electrochemical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in Alkaline Solution	6	1870
Yao, H.; Itaya, Kingo Atomically Resolved Scanning Tunneling Microscopy Images of InP(001), (111)A, and (111)B Surfaces in Sulfuric Acid Solution	9	3090
Yao, S., *see* Li, Zelin	11	3857
Yaremchenko, A. A., *see* Kharton, Vladislav V.	4	1363
Yasuda, Masaaki, *see* Kawata, Hiroaki	5	1701
Yasumoto, Eiichi, *see* Taniguchi, Noboru	5	1744
Yasumura, K., *see* Shiozawa, Katsuomi	5	1684
Ye, Peixiang, *see* Chiang, Yet-Ming	3	887
Ye, Shen; Ishibashi, Chikara; Shimazu, Katsuaki; Uosaki, Kohei An In Situ Electrochemical Quartz Crystal Microbalance Study of the Dissolution Process of a Gold Electrode in Perchloric Acid Solution Containing Chloride Ion	5	1614
Yeh, Ching-Fa; Chen, Tai-Ju; Lin, Ming-Tyang; Kao, J.-S. O2-Plasma Passivation Effects on Polysilicon Thin Film Transistors Using Ion Plating Method	1	252
Yeo, In-Seok, *see* Jang, Se-Aug	5	1664
Yi, Jung S.; Nguyen, Trung Van An Along-the-Channel Model for Proton Exchange Membrane Fuel Cells	4	1149
Yin, Ken-Ming A Theoretical Analysis of the Effect of Inert Blocking Agent on the Galvanostatic Pulse Plating	11	3851
Ying, Jackie Y., *see* Bryden, Kenneth J.	10	3339
Yokokawa, Harumi, *see* Horita, Teruhisa	9	3196
Yokota, Katsuhiro; Hosokawa, Kouichi; Terada, Kouichiro; Hirai, Kiyohito; Takano, Hiromichi; Kumagai, Masao; Ando, Yasunori; Matsuda, K. High-Concentration Arsenic-Doped Silicon Hydrogenated by Microwave Plasma	3	1028
Yonekura, Kazumasa; Sakamori, Shingenori; Kawai, Kenji; Miyatake, Hiroshi Reduction in Contact Resistance with In Situ O2 Plasma Treatment	7	2480
Yoneyama, Hiroshi, *see* Kuwabata, Susumu	5	1415
Yoneyama, Hiroshi, *see* Torimoto, Tsukasa	6	1964
Yoneyama, Hiroshi, *see* Kuwabata, Susumu	8	2707
Yoo, Han-Ill; Sinn, Dong-Sook; Hong, Jeong-Oh Thermoelectricity of Two-Phase Mixtures, Each with a Different Type Charge Carrier, p-NiO/n-ZnO	3	1008
Yoo, Han-Ill; Lee, Ki-Chun Microstructural Changes in a Polycrystalline, Semiconducting Oxide under DC Electric Fields	12	4243
Yoo, Jae Soo, *see* Kang, Sang Won	2	648
Yoo, Jae Soo, *see* Cho, Sung Hee	3	1017
Yoon, Chul Oh, *see* Barsoukov, Evgenij	8	2711
Yoon, Giwan; Epstein, Yefim Characterization of High Quality Nitrided Gate Dielectric Films Manufactured in Reduced Pressure Furnace for Ultralarge Scale Integration Complementary Metal Oxide Semiconductor Applications	5	1679
Yoon, Soon-Gil, *see* Yang, Cheol-Hoon	4	1330
Yoon, Yong-Sun, *see* Kwon, Kwang-Ho	3	1044
Yoshida, Kohji, *see* Shibata, Masami	2	595
Yoshida, Kohji, *see* Shibata, Masami	7	2348
Yoshida, M., *see* Zaitsu, Y.	1	258
Yoshida, Yasuhiro; Kubota, Shigeru; Ishibashi, Kenichiro; Ohnishi, Shinsuke; Kusumoto, Nobuo New Concept of Contrast Enhancement of Resist and Its Application to Positive-Type Resist	4	1335
Yoshida, Yasuki, *see* Inoue, Hiroshi	1	138
Yoshie, T., *see* Yoshimaru, Masaki	8	2847
Yoshihara, Yasuhide, *see* Tago, Teruoki	7	2516
Yoshii, K., *see* Monguchi, Takuo	7	2241
Yoshiki, Hajime; Hashimoto, Kazuhito; Fujishima, Akira Adhesion Mechanism of Electroless Copper Film Formed on Ceramic Substrates Using ZnO Thin Film as an Intermediate Layer	5	1430
Yoshimaru, Masaki; Yoshie, T. Effects of Substrate on the Growth Characteristics of Silicon Oxide Films Deposited by Atmospheric Pressure Chemical Vapor Deposition Using Si(OC2H5)4 and O3	8	2847
Yu, Ji-Sang, *see* Lee, Sang-Min	6	1953
Yuasa, Makoto, *see* Okada, Tatsuhiro	3	815
Yuasa, Shin-ichi, *see* Funabiki, Atsushi	1	172
Yun, Jong-Ho; Lee, Jung-Hyun; Park, Joon-Won; Rhee, Shi-Woo Effect of Additives on the Viscosity of Liquid-Phase Dimethylaluminum Hydride	2	L23
Yun, Ju-Young; Park, May-Young; Rhee, Shi-Woo Effect of the Gas-Phase Reaction in Metallorganic Chemical Vapor Deposition of TiN from Tetrakis(dimethylamido)titanium	7	2453
Yun, Seok-Min; Chang, Hong-Young; Lee, Kwang-Man; Kim, Doo-Chul; Choi, Chi-Kyu SiOF Film Deposition Using FSi(OC2H5)3 Gas in a Helicon Plasma Source	7	2576
Yun, Sun Jin, *see* Kwon, Kwang-Ho	3	1044
Zabrodskaya, E., *see* Zimina, Tatiana	7	2236
Zaghib, K.; Armand, M.; Gauthier, M. Electrochemistry of Anodes in Solid-State Li-Ion Polymer Batteries	9	3135
Zaghib, Karim; Tatsumi, Kuniaki; Abe, Hiroshi; Ohsaki, Takashi; Sawada, Yoshihiro; Higuchi, Shunichi Optimization of the Dimensions of Vapor-Grown Carbon Fiber for Use as Negative Electrodes in Lithium-Ion Rechargeable Cells	1	210
Zaitsu, Y.; Shimizu, T.; Takeuchi, J.; Matsumoto, Satoru; Yoshida, M.; Abe, Takao; Arai, E. Boron Diffusion in Compressively Stressed Float Zone-Silicon Induced by Si3N4 Films	1	258
Zakroczymski, Tadeusz; Kleshnya, V.; Flis, J. Evolution and Entry of Hydrogen into Iron during Cathodic Charging in Alkaline Solution with Ethylenediaminetetraacetic Acid	4	1142
Zaman, H.; Yamada, A.; Fukuda, H.; Ueda, Y. Magnetoresistance Effect in Co-Ag and Co-Cu Alloy Films Prepared by Electrodeposition	2	565
Zambov, Ludmil; Popov, Cyril; Ivanov, Borislav Design of Injection Feed Multiwafer Low-Pressure Chemical Vapor Deposition Reactors	7	2494
Zanderigo, F., *see* Polignano, Maria Luisa	5	1632
Zanelli, A., *see* Appetecchi, G. B.	12	4126
Zanelli, A., *see* Appetecchi, G. B.	12	4133
Zavada, J., *see* MacKenzie, J. D.	7	2581
Zecchin, Sandro, *see* Zotti, Gianni	2	385
Zecevic, S. K., *see* Gojkovic, S. Lj.	11	3713
Zekry, A., *see* Kirah, Kh.	1	332
Zeng, Y., *see* Li, Zelin	11	3857
Zhang, Guo-Bing, *see* Xiao, Z. X.	4	1360
Zhang, Ji-Guang; Liu, Ping; Turner, John A.; Tracy, C. Edwin; Benson, Dave K. Highly Stable Vanadium Oxide Cathodes Prepared by Plasma-Enhanced Chemical Vapor Deposition	6	1889
Zhang, Lei; Macdonald, Digby D.; Sikora, Elzbieta; Sikora, Janusz On the Kinetics of Growth of Anodic Oxide Films	3	898
Zhang, Qi, *see* Harris, Stephen J.	9	3203
Zhang, S.-L., *see* Mangelinck, D.	7	2530
Zhang, X. B., *see* Wang, C. S.	8	2751
Zhang, X. J., *see* Zheng, D. W.	5	1668
Zhang, Xulong; Frech, Roger In Situ Raman Spectroscopy of LixV2O5 in a Lithium Rechargeable Battery	3	847
Zhang, Yahong, *see* Jiang, Yi	2	373
Zhang, Yahong, *see* Wang, Shizhong	6	1932
Zhao, Jian H., *see* Cao, Lihui	10	3609
Zhao, Jun; Frankel, Gerald; McCreery, Richard L. Corrosion Protection of Untreated AA-2024-T3 in Chloride Solution by a Chromate Conversion Coating Monitored with Raman Spectroscopy	7	2258

Author	Issue	Page
Zhao, Qiang; Kohl, Paul A. Reactive Ion Etching of Silicon Containing Polynorbornenes	4	1257
Zhecheva, E., *see* Alcántara, R.	3	730
Zheng, D., *see* Wu, Yew Sermon	1	366
Zheng, D. W.; Cui, Q.; Huang, Y. P.; Zhang, X. J.; Kwor, Richard; Li, A. Z.; Tang, T. A. A Low Temperature Silicon-on-Insulator Fabrication Process Using Si MBE on Double-Layer Porous Silicon	5	1668
Zheng, J. P., *see* Jow, T. Richard	1	49
Zheng, Tao, *see* Dahn, Jeffrey R.	3	851
Zhou, D. B.; Vander Poorten, H. Impedance Characteristics of Oxygen Reduction at a Platinum Electrode in Alkaline Electrolyte	3	936
Zhou, Mei-Sheng, *see* Lee, Yuan-Ping	11	3966
Zhou, Ying; Hebert, Kurt R. A Mathematical Model for the Initiation of Aluminum Etch Tunnels	9	3100
Zhu, Ying Yang, *see* Williams, David E.	8	2664
Zhuang, Guorong; Ross, Philip N., Jr.; Kong, Fan-ping; McLarnon, Frank The Reaction of Clean Li Surfaces with Small Molecules in Ultrahigh Vacuum. II. Water	1	159
Zhuang, Honxia, *see* Nakamura, Yoshinobu	2	632
Zidoune, M., *see* Gabrielli, Claude	7	2386
Ziegler, J. C., *see* Engelmann, G. E.	3	L33
Zimin, P., *see* Zimina, Tatiana	7	2236
Zimina, Tatiana; Oshe, E.; Dubkov, V.; Zimin, P.; Zabrodskaya, E. The Effect of Nonstoichiometry of Surface Oxides Formed during High Temperature Oxidation on the Corrosion Resistance of Ferritic Chromium Steel	7	2236
Zinigrad, E., *see* Levi, E.	10	3440
Zong, Kyukwan, *see* Wurm, D. Brad	5	1483
Zorzi, N., *see* Bellutti, Pierluigi	7	2595
Zotti, Gianni; Schiavon, Gilberto; Zecchin, Sandro; Casellato, Umberto Electrodeposition of Amorphous Fe2O3 Films by Reduction of Iron Perchlorate in Acetonitrile	2	385
Zuhr, R. A., *see* Neudecker, B. J.	12	4148
Zuhr, R. A., *see* Neudecker, Bernd J.	12	4160
Zunger, Alex, *see* Wolverton, Christopher	7	2424

	Issue	Page
— A —		
Comparison of Oxidation Rates for **a-Si1-xCx:H** Films Deposited from Pulsed and Continuous Wave RF Plasmas	9	3271
ced Chemical Vapor Deposition Preparation of **a-SiNx** Thin Film with Low Hydrogen Content by Inductively Coupled Plasma Enhan	2	652
Properties of **a-SiOx:H** Thin Films Deposited from Hydrogen Silsesquioxane Resins	8	2861
The Effects of Dopants and **A:B** Site Nonstoichiometry on Properties of Perovskite-Type Proton Conductors	5	1780
Raman Spectroscopy Corrosion Protection of Untreated **AA-2024-T3** in Chloride Solution by a Chromate Conversion Coating Monitored with	7	2258
Characterization of **AA2024-T3** by Scanning Kelvin Probe Force Microscopy	7	2285
Microscopy Scratching Corrosion Study of **AA2024-T3** by Scanning Kelvin Probe Force Microscopy and In Situ Atomic Force	7	2295
Chemistry of a Chromate Conversion Coating on Aluminum Alloy **AA2024-T3** Probed by Vibrational Spectroscopy	9	3083
Effects on the Positive Electrode of the Corrosion of **AB5** Alloys in Nickel-Metal-Hydride Batteries	2	456
Analysis of the Superior Water Blocking **Ability** of Electron Cyclotron Resonance-Plasma SiO2 Film	4	1338
Monitoring Degradation of Single and Multilayer Organic Coatings. I. **Absorption** and Transport of Water: Theoretical Analysis and Methods	11	3830
f Passive Films on Aluminum. II. An X-Ray Photoelectron Spectroscopy and X-Ray **Absorption** Near Edge Structure Study Acid-Base Properties o	3	829
Pulsed Electrodeposition Synthesis and Hydrogen **Absorption** Properties of Nanostructured Palladium-Iron Alloy Films	10	3339
-Area Carbon in Aqueous Electrolytes In Situ Real-Time Pt LIII-Edge X-Ray **Absorption** Spectra of Carbon Monoxide Adsorbed on Platinum Particles Disperse	1	80
dium Surfaces In Situ Infrared Reflection **Absorption** Spectroscopy Studies of Sulfuric Acid Formation on Platinum and Palla	2	487
s and Their Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of Visible **Absorption** Spectra Determination of Chemical Specie	2	523
ox Reactions In Situ X-Ray **Absorption** Spectroscopic Study of Electrodeposited Nickel Oxide Films during Red	4	1121
Examination of the Role of Molybdenum in Passivation of Stainless Steels Using **AC** Impedance Spectroscopy	5	1462
Kinetic Behavior of Metal Hydride Electrode by Means of **AC** Impedance	6	1801
Agglomerate Model for DC and **AC** Response of Phosphoric Acid Fuel Cell Cathode	1	45
nce in Hemispherical Grain Polycrystalline Silicon for Advanced Dynamic Random **Access** Memory Application Optical Monitoring of Capacita	11	3935
nce Rotating Hemispherical Electrode. **Accurate** Expressions for the Limiting Current and the Convective Warburg Impeda	12	4189
Preparation and Characterization of Poly(vinyl chloride-co-vinyl **acetate)-Based** Gel Electrolytes for Li-Ion Batteries	4	1207
Kolbe Electrolysis of **Acetic** Acid in a Polymer Electrolyte Membrane Reactor	11	3728
A Laboratory Study of the Effect of **Acetic** Acid Vapor on Atmospheric Copper Corrosion	12	4140
Oxidation of 1,4-Bis(methylseleno)benzene (Selenium Analog of Wurster's Blue) in **Acetonitrile** The Electrochemical	2	541
Electrochemistry of 1-Ethyl-3-methylimidazolium Chloride in **Acetonitrile**	8	2660
Electrochemical Reduction of 3-Chloro-2,4-pentanedione at Carbon Cathodes in **Acetonitrile**	2	398
Electrodeposition of Amorphous Fe2O3 Films by Reduction of Iron Perchlorate in **Acetonitrile**	2	385
of the Polymerization and Depolymerization of 2,5-Dimercapto-1,3,4-thiadiazole in **Acetonitrile** Organosulfur/Conducting Polymer Composite Cathodes. I. Volt	6	1893
of Diphenyl Disulfide by Cobalt(I) Salen Electrogenerated at a Carbon Cathode in **Acetonitrile** Catalytic Reduction	10	3374
odel of Chemical Vapor Infiltration with Radio-Frequency Heating. II. Strategies to **Achieve** Complete Densification A Two-Dimensional M	10	3589
inetics and Morphology of Porous Anodic Alumina Films Formed Using Phosphoric **Acid** Growth K	8	2699
vice-Opening Dimension on the Stability of Crevice Corrosion for Nickel in Sulfuric **Acid** The Effect of Cre	7	2276
Aluminum and Aluminum Alloy Dissolution in Concentrated Phosphoric **Acid**	12	4067
The Pitting Behavior of Iron-Chromium Thin Film Alloys in Hydrochloric **Acid**	5	1586
Iron during Cathodic Charging in Alkaline Solution with Ethylenediaminetetraacetic **Acid** Evolution and Entry of Hydrogen into	4	1142
Active/Passive Behavior of Copper in Strong Sulfuric **Acid**	2	601
Atmospheric Corrosion of Copper in the Presence of **Acid** Ammonium Sulfate Particles	3	946
Optimization of the Positive Active Material Capacity in Lead- **Acid** Cells Through Control of the Basic Lead Sulfate Precursor	10	3358
Properties of Polyphenylquinoxaline **Acid** Complex as an Electrode Material	4	1193
orphology Modification and Delithiation Mechanisms of LiMn2O4 and Li2MnO3 by **Acid** Digestion M	1	16
The Mechanism of Electropolishing of Titanium in Methanol-Sulfuric **Acid** Electrolytes	7	2362
In Situ Infrared Reflection Absorption Spectroscopy Studies of Sulfuric **Acid** Formation on Platinum and Palladium Surfaces	2	487
Agglomerate Model for DC and AC Response of Phosphoric **Acid** Fuel Cell Cathode	1	45
Kolbe Electrolysis of Acetic **Acid** in a Polymer Electrolyte Membrane Reactor	11	3728
rbon Felt as the Cathode for Selective Dechlorination of 2,4-Dichlorophenoxyacetic **Acid** in Aqueous Solution Pd-Loaded Ca	11	3844
Impedance Spectroscopy of Copper Deposition on Silicon from Dilute Hydrofluoric **Acid** Solutions Electrochemical	1	352
tal Microbalance Study of the Dissolution Process of a Gold Electrode in Perchloric **Acid** Solution Containing Chloride Ion An In Situ Electrochemical Quartz Cry	5	1614
icrobalance Studies of Poly(ortho-toluidine) Films Exposed to Aqueous Perchloric **Acid** Solutions Electrochemical Quartz Crystal M	8	2640
Tunneling Microscopy Images of InP(001), (111)A, and (111)B Surfaces in Sulfuric **Acid** Solution Atomically Resolved Scanning	9	3090
A Laboratory Study of the Effect of Acetic **Acid** Vapor on Atmospheric Copper Corrosion	12	4140
dy **Acid-Base** Properties of Passive Films on Aluminum. I. A Photoelectrochemical Stu	3	823
ectroscopy and X-Ray Absorption Near Edge Structure Study **Acid-Base** Properties of Passive Films on Aluminum. II. An X-Ray Photoelectron Sp	3	829
The Nature of Oxide Films on Tungsten in **Acidic** and Alkaline Solutions	8	2718
pecies Synthesis of MnO2 Phases from LiMn2O4 in Aqueous **Acidic** Media. Mechanisms of Phase Transformations, Reactivity, and Effect of Bi S	10	3392
The Mechanism of the Transpassive Dissolution of Chromium in **Acidic** Sulfate Solutions	6	2043
ical Study of Copper Deposition onto Silicon from Dilute and Buffered Hydrofluoric **Acids** A Comparative Electrochem	1	241
teel Cracking in Wet H2S Correlation Between **Acoustic** Emission Signals and Hydrogen Permeation in High Strength, Low Alloy S	6	1968
Polymer Batteries Polymer Electrolytes Based on **Acrylonitrile-Methyl** Methacrylate-Styrene Terpolymers for Rechargeable Lithium-	6	1958
Effect of Pd Black Deposits on Successive Hydrogenation of 4-Methylstyrene with **Active** Hydrogen Passing Through a Pd Sheet Electrode	1	138
Proton Diffusion in Nickel Hydroxide. Prediction of **Active** Material Utilization	1	29
ties of Composite of Synthetic Graphite and Poly(3-n-hexylthiophene) as an Anode **Active** Material in Rechargeable Lithium-Ion Batteries Charge-Discharge Pr	5	1415
Evaluation of Zr(Ni,Mn)2 Laves Phase Alloys as Negative **Active** Material for Ni-MH Electric Vehicle Batteries	5	1478
ate Precursor Optimization of the Positive **Active** Material Capacity in Lead- Acid Cells Through Control of the Basic Lead Sulf	10	3358
ed Zirconia Interface by Secondary-Ion Mass Spectrometry **Active** Sites Imaging for Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabiliz	9	3196
Active/Passive Behavior of Copper in Strong Sulfuric Acid	2	601
rochemical Promotion Work Function and Catalytic **Activity** Measurements of an IrO2 Film Deposited on YSZ Subjected to In Situ Elect	3	905
Influence of Nitrogen-Containing Precursors on the Electrocatalytic **Activity** of Heat-Treated Fe(OH)2 on Carbon Black for O2 Reduction	7	2411
r a Pt-Ruads Surface Optimized for Oxidation of Methanol Deposition of Ru **Adatoms** on Pt Using Organometallic Chemistry. Electro-oxidation of Methanol, Eth	12	4182
Oxygen Solubilities in Si Melts: The Influence of Carbon **Addition**	1	319
e Oxide- and Polytetramethylene Glycol-Based Waterborne Polyurethane with the **Addition** of LiClO4/Propylene Carbonate An Investigation of Composite Elec	10	3450
chemical Reduction of the Nitroolefins so Produced Cathodically Promoted **Addition** of Nitromethane to Aldehydes and Exploratory Studies of the Mechanism	8	2768
Effect of Gas **Addition** on Ozone Ashing	12	4323
sition Effect of O2 **Addition** on the Deposition of Pt Thin Films by Metallorganic Chemical Vapor Depo	3	1066
emical Performance of Pd-Coated Metal Hydride Electrodes with Different Binding **Additives** in Alkaline Solution The Electroch	12	4169
The Effects of Gas-Phase **Additives** NH3, NO, and NO2 on SiH4/O2 Chemical Vapor Deposition	3	1070
Effect of **Additives** on the Viscosity of Liquid-Phase Dimethylaluminum Hydride	2	L23
sing ZnO Thin Film as an Intermediate Layer **Adhesion** Mechanism of Electroless Copper Film Formed on Ceramic Substrates U	5	1430
A Study of the **Adhesion** of Electrophoretically Deposited Phosphors	4	1245
Potential An Investigation of Faradaic **Admittance** for Electrode Processes Involving n State Variables Besides Electrode	2	517
In Situ Real-Time Pt LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide **Adsorbed** on Platinum Particles Dispersed in High-Area Carbon in Aqueous Electro	1	80
A Study on the Microphysical Mechanisms of **Adsorption** in Polyimide Layers for Microelectronic Applications	11	4012
The Phase-Shift Method for the Frumkin **Adsorption** Isotherms at the Pd/H2SO4 and KOH Solution Interfaces	11	3794
Effect of pH **Adsorption** of Metal Ions onto Hydrophilic Silicon Surfaces from Aqueous Solution:	8	2841
scopy **Adsorption** of Thiourea on Copper Electrodes Monitored by In Situ Infrared Spectro	10	3366
A Reaction-Plane Model for the Open-Circuit Potential of Copper in **Aerated** Copper Sulfate Solution	2	590
A 400 mAh/g **Aerogel-like** V2O5 Cathode for Rechargeable Lithium Batteries	5	L73
PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. A Combined XPS, **AFM**, HRTEM, and RDE Study	3	925
Modeling of the AgAs0.24S0.36Ag0.40Ag System Prepared by Photodissolution of **Ag** Equivalent Circuit	9	2971
sition Fabrication of **Ag/Y2O3-Stabilized** ZrO2 Composite Films by Metallorganic Chemical Vapor Depo	1	L4
Numbers. Application of Impedance, Potentiostatic, and Galvanostatic Methods to **Ag1.92Te** Determination of Chemical Diffusion Coefficients of Mixed Ionic-El	6	2179
trochemical Identification of the Hydrogen Sulfide System Using a pH2S (glass/Ag, **Ag2S**) Electrode Elec	1	77
Equivalent Circuit Modeling of the **AgAs0.24S0.36Ag0.40Ag** System Prepared by Photodissolution of Ag	9	2971
Solar Cells Coated with Fluorescent Coloring **Agent**	8	2955
A Theoretical Analysis of the Effect of Inert Blocking **Agent** on the Galvanostatic Pulse Plating	11	3851

		Issue	Page
Flow Modulation as a Means of Studying Leveling	**Agents**	2	550
e	**Agglomerate**s Model for DC and AC Response of Phosphoric Acid Fuel Cell Cathod	1	45
Effect of	**Aging** on Yttria-Stabilized Zirconia. I. A Study of Its Electrochemical Properties	5	1527
Conductivity Effect of	**Aging** on Yttria-Stabilized Zirconia. II. A Study of the Effect of the Microstructure on	5	1536
Conductivity Effect of	**Aging** on Yttria-Stabilized Zirconia. III. A Study of the Effect of Local Structures on	5	1550
Kinetic Study of the Oxidation of Gallium Nitride in Dry	**Air**	2	629
n Vacancies Mathematical Modeling of Oxygen Exchange and Transport in	**Air-Perovskite-Yttria-Stabilized** Zirconia Interface Regions. II. Direct Exchange of	4	1390
The Effects of Fluorine Passivation Using SF6 Plasma on the Corrosion of	**Al**(Cu 1%) at Grain Boundaries	3	1044
nd Te Concentration on the Deep Levels in Liquid-Phase Epitaxially Grown n-Type	**Al0.3Ga0.7As** Effects of Stoichiometry a	8	2905
PO4 Wet Etching of	**Al2O3** for Selective Patterning of Microstructures Using Ar+ Ion Implantation and H3	1	344
Investigations on the Electroreduction of Titanium Chlorides in	**AlCl3-Dimethylsulfone** Electrolyte	1	110
ectroscopic Properties and Humidity Sensitivity of Polyaniline Derivatives/Polyvinyl	**Alcohol** Composites Thermogravimetric/Mass and Infrared Sp	10	3351
admium The Effect of Several Benzyl	**Alcohols** and Electron Bridging Anions on the Current Efficiency for Deposition of C	3	801
itroolefins so Produced Cathodically Promoted Addition of Nitromethane to	**Aldehydes** and Exploratory Studies of the Mechanism of the Electrochemical Redu	8	2768
Mechanism of Particle Growth of a BaMgAl10O17:Eu2+ Phosphor by Firing with	**AlF3**	11	3898
Controlled Anodic Oxidation for High Precision Etch Depth in	**AlGaAs** III-V Semiconductor Structures	3	1076
High Density Plasma Damage in InGaP/GaAs and	**AlGaAs/GaAs** High Electron Mobility Transistors	11	4036
Reliability Improvement of	**AlInAs/GaInAs** High Electron Mobility Transistors by Fluorine Incorporation Control	8	2951
High Anodic Stability of a New Electrolyte Solvent: Unsymmetric Noncyclic	**Aliphatic** Sulfone	4	L70
Ion Drift Processes in Pyrex-Type	**Alkali-Borosilicate** Glass during Anodic Bonding	5	1755
Impedance Characteristics of Oxygen Reduction at a Platinum Electrode in	**Alkaline** Electrolyte	3	936
Electrogeneration of Hydroperoxide Ion Using an	**Alkaline** Fuel Cell	10	3444
Study of Tin Cementation in	**Alkaline** Solution	1	186
Evolution and Entry of Hydrogen into Iron during Cathodic Charging in	**Alkaline** Solution with Ethylenediaminetetraacetic Acid	4	1142
r of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in	**Alkaline** Solution Electrochemical Behavio	6	1870
Study of the Hydrogen Evolution Reaction on Ni-Mo-P Electrodes in	**Alkaline** Solutions	7	2219
The Nature of Oxide Films on Tungsten in Acidic and	**Alkaline** Solutions	8	2718
Potentiostatic Oxide Formation on Lead Selenide Single Crystals in	**Alkaline** Solutions	8	2806
Nonlinear Phenomena during the Reduction of Hydrogen Peroxide in	**Alkaline** Solution Involving Mass Transfer	11	3857
ormance of Pd-Coated Metal Hydride Electrodes with Different Binding Additives in	**Alkaline** Solution The Electrochemical Perf	12	4169
pper by Multistep Modification of an Alkanethiol Monolayer with Chlorosilanes and	**Alkanediol** Protective Films on Co	8	2786
Protection of Copper Corrosion by an Ultrathin Two-Dimensional Polymer Film of	**Alkanethiol** Monolayer	6	1886
Protective Films on Copper by Multistep Modification of an	**Alkanethiol** Monolayer with Chlorosilanes and Alkanediol	8	2786
The Superiority of Asymmetric	**Alkyl** Methyl Carbonates	1	L1
Reactivity of Alkylsilanes and	**Alkylcarbosilanes** in Atomic Hydrogen-Induced Chemical Vapor Deposition	3	1060
eposition Reactivity of	**Alkylsilanes** and Alkylcarbosilanes in Atomic Hydrogen-Induced Chemical Vapor D	3	1060
ces Between Fe2O3-TiO2 Artificial Passivation Film and Passivation Film on Fe-Ti	**Alloy** Comparison of Corrosion Resistan	8	2818
t of Annealing on the Discharge Characteristics of a Zr-V-Mn-Ni Hydrogen Storage	**Alloy** The Effec	6	1953
Chemistry of a Chromate Conversion Coating on Aluminum	**Alloy** AA2024-T3 Probed by Vibrational Spectroscopy	9	3083
M, and RDE Study PtRu	**Alloy** Colloids as Precursors for Fuel Cell Catalysts. A Combined XPS, AFM, HRTE	3	925
mance Mechanism of	**Alloy** Corrosion and Consequences on Sealed Nickel-Metal Hydride Battery Perfor	3	860
Aluminum and Aluminum	**Alloy** Dissolution in Concentrated Phosphoric Acid	12	4067
Microelectrode Evaluation of Transition Metal-Aluminum	**Alloy** Electrodepositions in Chloroaluminate Ionic Liquids	5	1598
Single-Electrode Peltier Heats of Li-Si	**Alloy** Electrodes in LiCl-KCl Eutectic Melt	6	1996
Magnetoresistance Effect in Co-Ag and Co-Cu	**Alloy** Films Prepared by Electrodeposition	2	565
n Synthesis and Hydrogen Absorption Properties of Nanostructured Palladium-Iron	**Alloy** Films Pulsed Electrodepositio	10	3339
nce The Effect of the Lead	**Alloy** Hardening Process in Electric Vehicle Storage Batteries on Corrosion Resista	9	3183
Determination of Chemical Species and Their Composition in Ni-Mo	**Alloy** Plating Baths by Factor Analysis of Visible Absorption Spectra	2	523
tween Acoustic Emission Signals and Hydrogen Permeation in High Strength, Low	**Alloy** Steel Cracking in Wet H2S Correlation Be	6	1968
sbauer Effect Studies of the Electrochemical Reaction of Lithium with Mechanically	**Alloyed** Sn2Fe In Situ Mos	12	4195
onducting Properties of Passive Films Formed on Stainless Steels. Influence of the	**Alloying** Elements Semic	11	3821
Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydrogen-Storage	**Alloys** Determination of Internal Cell Pressures in Sealed Ni-MH	10	3387
Oxygen Incorporation during the Electrodeposition of Ni, Fe, and Ni-Fe	**Alloys**	11	3699
Thermodynamic Properties of Pd-Li	**Alloys**	3	785
velopment of a Stable Citrate Electrolyte for the Electrodeposition of Copper-Nickel	**Alloys** The De	3	875
Induced Compositional Structure in Electrodeposited NiFe Composition-Modulated	**Alloys** Characterization of Flow-	8	2827
In Situ Determination of the Composition of Surface Films Formed on Fe-Cr	**Alloys**	6	1922
tudies on Electroless Cobalt Coatings for Microencapsulation of Hydrogen Storage	**Alloys** S	9	3000
Evaluation of Zr(Ni,Mn)2 Laves Phase	**Alloys** as Negative Active Material for Ni-MH Electric Vehicle Batteries	5	1478
Electrodeposition of Iron-Group Metals and Binary	**Alloys** from Sulfate Baths. I. Experimental Study	3	981
Electrodeposition of Copper and Copper-Aluminum	**Alloys** from a Room-Temperature Chloroaluminate Molten Salt	9	3110
roscopy and Ion Scattering Spectroscopy The Passivity of Fe/Si	**Alloys** in Aqueous Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron Spect	3	834
The Corrosion of Mo-Al	**Alloys** in a H2/H2S/H2O Gas Mixture at 800-1000 C	7	2265
The Pitting Behavior of Iron-Chromium Thin Film	**Alloys** in Hydrochloric Acid	5	1566
Constant Voltage Anodizing of Mg-Al	**Alloys** in KOH-Al(OH)3 Solutions	1	190
Effects on the Positive Electrode of the Corrosion of AB5	**Alloys** in Nickel-Metal-Hydride Batteries	2	456
Modeling the Galvanostatic Pulse and Pulse Reverse Plating of Nickel-Iron	**Alloys** on a Rotating-Disk Electrode	6	2033
Role of Electronic Property of Pt and Pt	**Alloys** on Electrocatalytic Reduction of Oxygen	12	4185
Thin Films of Amorphous Germanium-Tin	**Alloys** Prepared by Radio-Frequency Magnetron Sputtering	4	1303
Characterization of Hydrogen Permeation Through Zinc-Nickel	**Alloys** under Corroding Conditions. Mathematical Model and Experimental Study	6	1907
Detection of Localized Corrosion of Aluminum	**Alloys** Using Fluorescence Microscopy	5	1571
Electrochemical Properties of Over-stoichiometric ZrMn1-xVxNi1.4+y	**Alloys** with C15 Laves Phase	1	93
Sealing of Anodized Aluminum	**Alloys** with Rare Earth Metal Salt Solutions	8	2792
An	**Along-the-Channel** Model for Proton Exchange Membrane Fuel Cells	4	1149
Grain Boundary Segregation of Cation Dopants in	**Alpha** -Al2O3 Scales	6	1819
dic Current Transients Resulting from Oxide Rupture of Plastically Strained Beta +	**Alpha** Titanium Modeling of Ano	6	1829
Microstructural Features of	**alpha-MnO2** Electrodes for Lithium Batteries	2	582
Synthesis of LiMnO2 with	**alpha-NaMnO2-Type** Structure by a Mixed-Alkaline Hydrothermal Reaction	4	L49
Self-Organized Formation of Hexagonal Pore Structures in Anodic	**Alumina**	11	3735
ects on the Oxidation of a Ni-Base Chromia Former	**Alumina** Coatings Applied via Combustion Chemical Vapor Deposition and Their Eff	11	3986
Growth Kinetics and Morphology of Porous Anodic	**Alumina** Films Formed Using Phosphoric Acid	8	2699
An Investigation of Slurry Chemistry Used in Chemical Mechanical Planarization of	**Aluminum**	6	2074
Nondestructive Optical Characterization of Chemical Conversion Coatings on	**Aluminum**	8	2733
Nucleation of Chromate Conversion Coating on	**Aluminum** 2024-T3 Investigated by Atomic Force Microscopy	1	L11
Detection of Localized Corrosion of	**Aluminum** Alloys Using Fluorescence Microscopy	5	1571
Sealing of Anodized	**Aluminum** Alloys with Rare Earth Metal Salt Solutions	8	2792
Chemistry of a Chromate Conversion Coating on	**Aluminum** Alloy AA2024-T3 Probed by Vibrational Spectroscopy	9	3083
Aluminum and	**Aluminum** Alloy Dissolution in Concentrated Phosphoric Acid	12	4067
	Aluminum and Aluminum Alloy Dissolution in Concentrated Phosphoric Acid	12	4067
2 Carrier Gas Very Low Pressure Selective	**Aluminum** Chemical Vapor Deposition Using Dimethylaluminum Hydride Without H	12	4327
en Salt Electrochemistry of Thallium in the Basic	**Aluminum** Chloride-1-methyl-3-ethylimidazolium Chloride Room Temperature Molt	4	1196
A Mathematical Model for the Initiation of	**Aluminum** Etch Tunnels	9	3100
Acid-Base Properties of Passive Films on	**Aluminum**. I. A Photoelectrochemical Study	3	823
dge Structure Study Acid-Base Properties of Passive Films on	**Aluminum**. II. An X-Ray Photoelectron Spectroscopy and X-Ray Absorption Near E	3	829
Pitting in	**Aluminum** Thin Films. Supersaturation and Effects of Dichromate Ions	8	2834
Oxidation and Reduction of Liquid SnPb (60/40) under	**Ambient** and Vacuum Conditions	6	2138
Electro-oxidative Polymerization and Spectroscopic Characterization of Novel	**Amide** Polymers Using Diphenylamine Coupling	8	2648
Deposition and Chemical Composition of Silicon Oxynitride from Methylsilazane in	**Ammonia** and Nitrous Oxide	6	1902

		Issue	Page
Impact of Iron Contamination and Roughness Generated in	**Ammonia** Hydrogen Peroxide Mixtures (SC1) on 5 nm Gate Oxides	7	2589
In Situ Studies of Cu Deposition in the Presence of Quaternary	**Ammonium** Salts	4	1218
Atmospheric Corrosion of Copper in the Presence of Acid	**Ammonium** Sulfate Particles	3	946
Radiation Inner-Shell Electron Excitation Effect on the Structural Change in	**Amorphous** and Crystalline GaAs with Brilliant X-Ray Irradiation Using Synchrotron	9	3063
Electrodeposition of	**Amorphous** Fe2O3 Films by Reduction of Iron Perchlorate in Acetonitrile	2	385
ering Thin Films of	**Amorphous** Germanium-Tin Alloys Prepared by Radio-Frequency Magnetron Sputt	4	1303
kHz Plasma Enhanced Chemical Vapor Deposition	**Amorphous** Hydrogenated Silicon Films for Solar Cell Application Obtained with 55	7	2508
eliability Application of a Semi-Insulating	**Amorphous** Hydrogenated Silicon Nitride Film as a Resistive Field Shield and Its R	12	4296
lectrochromic Devices	**Amorphous** Nb/Fe-Oxide Ion-Storage Films for Counter Electrode Applications in E	5	1607
Determination of the Trap Density in	**Amorphous** Silicon by Quasi-static Capacitance-Voltage Measurements	5	1786
d Chemical Vapor Deposition Mechanism of	**Amorphous** Silica Film Formation from Tetraethoxysilane in Atomic Oxygen-Induce	8	2866
Novel Method for the Formation of Large-Grained, Silicon Thin Films on	**Amorphous** Substrates	11	3963
Sensors for Detecting Sub-ppm NO2 Using Photochemically Produced	**Amorphous** Tungsten Oxide	12	4219
Thin-Film Properties and Barrier Effectiveness of Chemically Vapor Deposited	**Amorphous** WSix Film	12	4206
The Electrochemical Oxidation of 1,4-Bis(methylseleno)benzene (Selenium	**Analog** of Wurster's Blue) in Acetonitrile	2	541
Polymer Electrolyte Membranes for Fuel Cells	**Analyses** of Self-Humidification and Suppression of Gas Crossover in Pt-Dispersed	4	1137
and Multilayer Organic Coatings. I. Absorption and Transport of Water: Theoretical	**Analysis** and Methods Monitoring Degradation of Single	11	3830
Optimized Diode	**Analysis** of Electrical Silicon Substrate Properties	6	2107
Studies. Maximum Entropy Method or Fast Fourier Transform?	**Analysis** of Electrochemical Noise by Power Spectral Density Applied to Corrosion	8	2780
el Cells	**Analysis** of Fuel Utilization Performance of Round Substrate, Planar Solid Oxide Fu	3	931
	Analysis of Iron Precipitation in Silicon as a Basis for Gettering Simulations	12	4259
ge Current Density Theoretical	**Analysis** of Metal Hydride Electrodes. Studies on Equilibrium Potential and Exchan	12	4082
ng Kelvin Probe Measurements	**Analysis** of Surface Carbon Contamination on Phosphated Zinc Surfaces by Scanni	3	L39
An	**Analysis** of the Binder Formation in Electrophoretic Deposition	4	1253
asma SiO2 Film	**Analysis** of the Superior Water Blocking Ability of Electron Cyclotron Resonance-Pl	4	1338
A Theoretical	**Analysis** of the Effect of Inert Blocking Agent on the Galvanostatic Pulse Plating	11	3851
sion-Limited Regime Linear Stability	**Analysis** of Unsteady Galvanostatic Electrodeposition in the Two-Dimensional Diffu	6	2016
of Chemical Species and Their Composition in Ni-Mo Alloy Plating Baths by Factor	**Analysis** of Visible Absorption Spectra Determination	2	523
Hydrophobicity of a Hydrochloric-Treated GaAs Surface	**Analyzed** by Contact Angle Measurement	4	1381
Current Evolution of Electrodeposited Copper Bumps with Photoresist	**Angle**	3	840
Hydrophobicity of a Hydrochloric-Treated GaAs Surface Analyzed by Contact	**Angle** Measurement	4	1381
s in Nonaqueous Solutions The Synthesis of a New Family of Boron-Based	**Anion** Receptors and the Study of Their Effect on Ion Pair Dissociation and Conduc	8	2813
Tuning the Position of the Redox Couples in Materials with NASICON Structure by	**Anionic** Substitution	5	1518
The Effect of Several Benzyl Alcohols and Electron Bridging	**Anions** on the Current Efficiency for Deposition of Cadmium	3	801
Effect of Benzotriazole on the	**Anisotropic** Electrolytic Etching of Copper	9	3016
Interface State Capture Cross Section Measurements on Vacuum	**Annealed** and Radiation Damaged Si:SiO2 Surfaces	2	683
rovements of Gate Oxide Reliability by Argon Annealing Compared with Hydrogen	**Annealing** Drastic Imp	10	3628
Photoluminescence of Semi-insulating InP Wafers Prepared by Two-Step Wafer	**Annealing**	3	1048
Changes in the Environment of Hydrogen in Porous Silicon with Thermal	**Annealing**	7	2439
Drastic Improvements of Gate Oxide Reliability by Argon	**Annealing** Compared with Hydrogen Annealing	10	3628
A Study of Rapid Photothermal	**Annealing** of Sputtered Lead Lanthanum Zirconia Titanate Thin Films	12	4317
wn Silicon Oxides Effects of	**Annealing** on Oxygen Depth Profiles and Chemical Etching Rates of Thermally Gro	4	1306
on Effects of Thermal N2	**Annealing** on Passivation Capability of Sputtered Ta(-N) Layers Against Cu Oxidati	11	4029
y The Effect of	**Annealing** on the Discharge Characteristics of a Zr-V-Mn-Ni Hydrogen Storage Allo	6	1953
anistic Aspects of Phenol Electrochemical Degradation by Oxidation on a Ta/PbO2	**Anode** Mech	10	3427
Super Dense LiC2 as a High Capacity Li Intercalation	**Anode**	7	2377
Properties of Composite of Synthetic Graphite and Poly(3-n-hexylthiophene) as an	**Anode** Active Material in Rechargeable Lithium-Ion Batteries Charge-Discha	5	1415
Studies on Stannic Oxide as an	**Anode** Material for Lithium-Ion Batteries	1	59
Effect of	**Anode** Materials on NF3 Formation	4	1160
Reduction of the Irreversible Capacity in Hard-Carbon	**Anode** Materials Prepared from Sucrose for Li-Ion Batteries	6	1977
On the Reduction of Lithium Insertion Capacity in Hard-Carbon	**Anode** Materials with Increasing Heat-Treatment Temperature	7	2252
ic Mass-Transfer Rates Associated with Natural Convection along a Plane Vertical	**Anode** Measured by Two-Wavelength Holographic Interferometry Ion	11	3814
hemical Studies of Indium Hexacyanoferrate Electrodes Prepared by the Sacrificial	**Anode** Method Spectroelectroc	7	2334
Effect of Mixed-Conducting Interfacial Layers on Solid Oxide Fuel Cell	**Anode** Performance	5	1696
The Search for Cathode and	**Anode** Traps in High-Voltage Stressed Silicon Oxides	4	1292
l Cells. Effects of Composition and Microstructures on Performance of Ceria-Based	**Anodes** High-Performance Electrode for Medium-Temperature Solid Oxide	2	615
on Impedance: A Test Geometry Effect in Characterization of Solid Oxide Fuel Cell	**Anodes** Gas Conversi	7	2431
Application of Hydrogen Diffusion	**Anodes** in Electrolytic Processes Using Methanol-Water Mixtures	5	1502
Differential Scanning Calorimetry Study of the Reactivity of Carbon	**Anodes** in Plastic Li-Ion Batteries	2	472
Thermal Expansion of Nickel-Zirconia	**Anodes** in Solid Oxide Fuel Cells during Fabrication and Operation	4	1374
Electrochemistry of	**Anodes** in Solid-State Li-Ion Polymer Batteries	9	3135
Growth Kinetics and Morphology of Porous	**Anodic** Alumina Films Formed Using Phosphoric Acid	8	2609
Self-Organized Formation of Hexagonal Pore Structures in	**Anodic** Alumina	11	3735
Mechanisms of Film Growth Rate Enhancement in	**Anodic** and Cathodic Corona-Discharge Oxidation Processes	8	2944
Ion Drift Processes in Pyrex-Type Alkali-Borosilicate Glass during	**Anodic** Bonding	5	1755
s and Nonfaradaic Yields A Study on the Origin of Nonfaradaic Behavior of	**Anodic** Contact Glow Discharge Electrolysis. The Relationship Between Power Diss	7	2209
a + Alpha Titanium Modeling of	**Anodic** Current Transients Resulting from Oxide Rupture of Plastically Strained Bet	6	1829
In Situ Infrared Study of the Oscillating	**Anodic** Dissolution of Silicon in Fluoride Electrolytes	3	964
Direct Observation of	**Anodic** Films Formed on Gallium Phosphide in Aqueous Tungstate Electrolyte	9	3011
Modeling of the Transient Behavior of	**Anodic** Oxides Formed in Si/HF Electrolyte Systems	1	332
ocesses Degradation of 4-Chlorophenol by	**Anodic** Oxidation, Electro-Fenton, Photoelectro-Fenton, and Peroxi-Coagulation Pr	3	759
On the Kinetics of Growth of	**Anodic** Oxide Films	3	898
ctures Controlled	**Anodic** Oxidation for High Precision Etch Depth in AlGaAs III-V Semiconductor Stru	3	1076
Electrical Characterization of Thin SiO2 Films on Silicon Created by	**Anodic** Oxygen Corona Discharge Processing	8	2937
ons High	**Anodic** Stability of a New Electrolyte Solvent: Unsymmetric Noncyclic Aliphatic Sulf	4	L70
Lithium Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O'] borate(1-), a New	**Anodically** and Cathodically Stable Salt for Electrolytes of Lithium-Ion Cells	2	L17
ic Liquids	**Anodization** and Speciation of Magnesium in Chloride-Rich Room Temperature Ion	1	24
Fibrous and Porous Microstructure Formation in 6H-SiC by	**Anodization** in HF Solution	7	2456
Sealing of	**Anodized** Aluminum Alloys with Rare Earth Metal Salt Solutions	8	2792
Constant Voltage	**Anodizing** of Mg-Al Alloys in KOH-Al(OH)3 Solutions	1	190
	Anomalous Current Rise and Electrochemical Reduction in Fe2O3-TiO2 Ceramics	5	1592
perature Wet Chemical Etching of Ta2O5 in NaOH-Based Solutions for Fabricating	**Antiresonant** Reflecting Optical Waveguides High-Tem	3	1020
Solutions Thermodynamic Behavior of Various Phases	**Appearing** in the CeZrO4-CeZrO3.5 System and the Formation of Metastable Solid	4	1406
? Analysis of Electrochemical Noise by Power Spectral Density	**Applied** to Corrosion Studies. Maximum Entropy Method or Fast Fourier Transform	8	2780
A New Inlet System for Differential Electrochemical Mass Spectroscopy	**Applied** to the Photocorrosion of p-InP(111) Single Crystals	2	576
ion of a Ni-Base Chromia Former Alumina Coatings	**Applied** via Combustion Chemical Vapor Deposition and Their Effects on the Oxidat	11	3986
s Equivalent Circuit	**Approximation** to Porous Mixed-Conducting Oxygen Electrodes in Solid-State Cell	1	142
Sulfamides and Glymes as	**Aprotic** Solvents for Lithium Batteries	10	3500
ct of Bi Species Synthesis of MnO2 Phases from LiMn2O4 in	**Aqueous** Acidic Media. Mechanisms of Phase Transformations, Reactivity, and Effe	10	3392
orous Silicon. Evidence for Surface-Bound Emitters On the Correlation of	**Aqueous** and Nonaqueous In Situ and Ex Situ Photoluminescent Emissions from P	9	3284
arbon Monoxide Adsorbed on Platinum Particles Dispersed in High-Area Carbon in	**Aqueous** Electrolytes In Situ Real-Time Pt LIII-Edge X-Ray Absorption Spec	1	80
and Ion Scattering Spectroscopy The Passivity of Fe/Si Alloys in	**Aqueous** Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron Spectroscopy	3	834
Electrochemical Stability of p-GaInP2 in	**Aqueous** Electrolytes Toward Photoelectrochemical Water Splitting	10	3335
thods for Convex Corners	**Aqueous** KOH Etching of Silicon (110). Etch Characteristics and Compensation Me	7	2499
ical Quartz Crystal Microbalance Studies of Poly(ortho-toluidine) Films Exposed to	**Aqueous** Perchloric Acid Solutions Electrochem	8	2640
	Aqueous Potential-pH Equilibria in Copper-Benzotriazole Systems	3	L42
An Optical Method for Monitoring Metal Contamination during	**Aqueous** Processing of Silicon Wafers	5	1688
The Passivity and Breakdown of Beryllium in	**Aqueous** Solutions	8	2799

		Issue	Page
Adsorption of Metal Ions onto Hydrophilic Silicon Surfaces from	**Aqueous** Solution: Effect of pH	8	2841
It as the Cathode for Selective Dechlorination of 2,4-Dichlorophenoxyacetic Acid in	**Aqueous** Solution Pd-Loaded Carbon Fe	11	3844
A Raman Study of Etching Silicon in	**Aqueous** Tetramethylammonium Hydroxide	11	4040
Direct Observation of Anodic Films Formed on Gallium Phosphide in	**Aqueous** Tungstate Electrolyte	9	3011
Electrodeposition of Zinc Oxide and Zinc Hydroxychloride Films from Oxygenated	**Aqueous** Zinc Chloride Solutions Mechanistic Study of Cathodic	3	884
Wet Etching of Al2O3 for Selective Patterning of Microstructures Using	**Ar+** Ion Implantation and H3PO4	1	344
Recombination Centers Created by	**Ar+-Ion** Implantation into SIMOX Substrates	5	1795
Remote Plasma-Enhanced Chemical Vapor Deposition of SiO2 Using	**ArN2O** and SiH4	11	3957
nation of Chemical Diffusion Coefficients of Mixed Ionic-Electronic Conductors with	**Arbitrary** Electronic Transport Numbers. Application of Impedance, Potentiostatic, a	6	2179
orrelation of the First-Cycle Charge Loss with the Brunauer-Emmett-Teller Surface	**Area** Graphites for Lithium-Ion Cells: The C	2	428
Drastic Improvements of Gate Oxide Reliability by	**Argon** Annealing Compared with Hydrogen Annealing	10	3628
Characterization of 3 x 3 Matrix	**Arrays** of Solution-Phase Electrochromic Cells	4	L55
High-Concentration	**Arsenic-Doped** Silicon Hydrogenated by Microwave Plasma	3	1028
Electrochemical Behavior of Cr2O3/Fe2O3	**Artificial** Passive Films Studied by In Situ XANES	3	791
Comparison of Corrosion Resistances Between Fe2O3-TiO2	**Artificial** Passivation Film and Passivation Film on Fe-Ti Alloy	8	2818
Effect of Gas Addition on Ozone	**Ashing**	12	4323
Comparison of Experiments with a Lumped Parameter Model of the Plasma	**Assisted** Chemical Vapor Deposition of Copper	2	694
man and Infrared Spectroscopy Ion	**Association** and Solvation Studies of LiClO4/Ethylene Carbonate Electrolyte by Ra	10	3348
The Superiority of	**Asymmetric** Alkyl Methyl Carbonates	1	L1
A Laboratory Study of the Effect of Acetic Acid Vapor on	**Atmospheric** Copper Corrosion	12	4140
The Role of Carbon Dioxide in the	**Atmospheric** Corrosion of Zinc. A Laboratory Study	1	39
cles	**Atmospheric** Corrosion of Copper in the Presence of Acid Ammonium Sulfate Parti	3	948
Some Aspects of the	**Atmospheric** Corrosion of Copper in the Presence of Sodium Chloride	4	1093
The Influence of CO2 and NaCl on the	**Atmospheric** Corrosion of Zinc. A Laboratory Study	9	2983
cts of Substrate on the Growth Characteristics of Silicon Oxide Films Deposited by	**Atmospheric** Pressure Chemical Vapor Deposition Using Si(OC2H5)4 and O3	8	2847
Nucleation of Chromate Conversion Coating on Aluminum 2024-T3 Investigated by	**Atomic** Force Microscopy	1	L11
osion Study of AA2024-T3 by Scanning Kelvin Probe Force Microscopy and In Situ	**Atomic** Force Microscopy Scratching Corr	7	2295
Sequential Observation of Electroless Copper Deposition via Noncontact	**Atomic** Force Microscopy	9	3301
Photocorrosion of Coupled CdS/CdSe Photoelectrodes Coated with ZnO.	**Atomic** Force Microscopy and X-Ray Diffraction Studies	10	3535
Reactivity of Alkylsilanes and Alkylcarbosilanes in	**Atomic** Hydrogen-Induced Chemical Vapor Deposition	3	1060
Formation of Thin Films of CdTe, CdSe, and CdS by Electrochemical	**Atomic** Layer Epitaxy	5	1442
	Atomic Layer Epitaxy Growth of TiN Thin Films from TiI4 and NH3	8	2914
ethyl-3,5-heptanedionate/H2 Process	**Atomic** Layer Epitaxy of Copper. Growth and Selectivity in the Cu(II)-2,2,6,6-tetram	8	2926
Optimization of the Growth of CdTe Thin Films Formed by Electrochemical	**Atomic** Layer Epitaxy in an Automated Deposition System	10	3594
Mechanism of Amorphous Silica Film Formation from Tetraethoxysilane in	**Atomic** Oxygen-Induced Chemical Vapor Deposition	8	2866
	Atomic-Order Thermal Nitridation of Silicon at Low Temperatures	12	4252
and (111)B Surfaces in Sulfuric Acid Solution	**Atomically** Resolved Scanning Tunneling Microscopy Images of InP(001), (111)A,	9	3090
Nanofabrication of Small Palladium Clusters on	**Au(111)** Electrodes with a Scanning Tunnel Microscope	3	L33
The Influence of Sulfate-Reducing Bacteria on the Passivity of Type 317L	**Austenitic** Stainless Steel	6	1914
Growth of CdTe Thin Films Formed by Electrochemical Atomic Layer Epitaxy in an	**Automated** Deposition System Optimization of the	10	3594

— B —

		Issue	Page
Conduction Mechanism and Temperature-Dependent Current-Voltage in	**(Ba, Sr)TiO3** Thin Films	8	2853
Lowering of Leakage Current Density of	**(Ba,Sr)TiO3** Thin Films by Pulse Injection Deposition	11	3884
Sensing Properties of an Oxygen Sensor Using	**BaCe0.8Gd0.2O3-alpha** Ceramics as Electrolytes	5	1744
The Influence of Sulfate-Reducing	**Bacteria** on the Passivity of Type 317L Austenitic Stainless Steel	6	1914
Mathematical Modeling of Soft	**Baking** in Photoresist Processing	12	4256
Studies of Lithium Insertion in	**Ballmilled** Sugar Carbons	1	62
Mechanism of Particle Growth of a	**BaMgAl10O17:Eu2+** Phosphor by Firing with AlF3	11	3898
Mechanism of Luminance Decrease in	**BaMgAl10O17:Eu2+** Phosphor by Oxidation	11	3903
Prototype Tool for Electrochemical Microfinishing and Character Rounding of Print	**Bands** Surface Finishing of High Speed Print Bands. I. A	9	3047
ng of Print Bands Surface Finishing of High Speed Print	**Bands**. I. A Prototype Tool for Electrochemical Microfinishing and Character Roundi	9	3047
less Steel Surface Finishing of High Speed Print	**Bands**. II. An Electrochemical Process for Microfinishing of Hardened Fe-13Cr Stain	9	3052
Thin-Film Properties and	**Barrier** Effectiveness of Chemically Vapor Deposited Amorphous WSix Film	12	4206
Capacitor Structure High Temperature	**Barrier** Electrode Technology for High Density Ferroelectric Memories with Stacked	7	2563
Sputtered Cr and Reactively Sputtered CrNx Serving as	**Barrier** Layers Against Copper Diffusion	12	4290
Effect of TiN Microstructure on Diffusion	**Barrier** Properties in Cu Metallization	6	2164
	Barrier Properties of Very Thin Ta and TaN Layers Against Copper Diffusion	7	2538
Lithium-Polymer Batteries Polymer Electrolytes	**Based** on Acrylonitrile-Methyl Methacrylate-Styrene Terpolymers for Rechargeable	6	1958
Oxygen Reduction Characteristics of Heat-Treated Catalysts	**Based** on Cobalt-Porphyrin Ion Complexes	3	815
Novel Low k Dielectrics	**Based** on Diamondlike Carbon Materials	5	1649
Highly Sensitive Microbiosensor for Creatinine	**Based** on the Combination of Inactive Polypyrrole with Polyion Complexes	2	406
Methanol Tolerant Oxygen Reduction Catalysts	**Based** on Transition Metal Sulfides	10	3463
Intermediate Temperature Solid Oxide Fuel Cells Using a New LaGaO3	**Based** Oxide Ion Conductor. I. Doped SmCoO3 as a New Cathode Material	9	3177
al Processing A 10% Cu(In,Ga)Se2	**Based** Photovoltaic Structure Formed by Electrodeposition and Subsequent Therm	10	3813
Molten Salt Electrochemistry of Thallium in the	**Basic** Aluminum Chloride-1-methyl-3-ethylimidazolium Chloride Room Temperature	4	1196
of the Positive Active Material Capacity in Lead- Acid Cells Through Control of the	**Basic** Lead Sulfate Precursor Optimization	10	3358
Analysis of Iron Precipitation in Silicon as a	**Basis** for Gettering Simulations	12	4259
Preparation of Indium Hydroxy Sulfide Inx(OH)ySz Thin Films by Chemical	**Bath** Deposition	8	2775
Determination of Chemical Species and Their Composition in Ni-Mo Alloy Plating	**Baths** by Factor Analysis of Visible Absorption Spectra	2	523
Electrodeposition of Iron-Group Metals and Binary Alloys from Sulfate	**Baths**. I. Experimental Study	3	981
dy of the Electrochemical Reduction of Electrolyte Solutions for Lithium Secondary	**Batteries** Electron Spin Resonance Stu	11	3767
al Properties of GeS2-Based Glass-Polymer Composite Electrolytes for Lithium-Ion	**Batteries** Electrochemic	6	1949
thiated NaV3O8: A Positive Electrode Material for Use in Rechargeable Lithium-Ion	**Batteries** Electrochemistry of Chemically Li	2	421
A 400 mAh/g Aerogel-like V2O5 Cathode for Rechargeable Lithium	**Batteries**	5	L73
tial Scanning Calorimetry Study of the Reactivity of Carbon Anodes in Plastic Li-Ion	**Batteries** Differen	2	472
itrile-Methyl Methacrylate-Styrene Terpolymers for Rechargeable Lithium-Polymer	**Batteries** Polymer Electrolytes Based on Acrylon	6	1958
Capacity Fade Mechanisms and Side Reactions in Lithium-Ion	**Batteries**	10	3647
cterization of Poly(vinyl chloride-co-vinyl acetate)-Based Gel Electrolytes for Li-Ion	**Batteries** Preparation and Chara	4	1207
Poly(3-n-hexylthiophene) as an Anode Active Material in Rechargeable Lithium-Ion	**Batteries** Charge-Discharge Properties of Composite of Synthetic Graphite	5	1415
try, and Performance of Li Electrodes and the Connection to Cycle Life of Practical	**Batteries** The Correlation Between Charge/Discharge Rates and Morpholog	5	1421
Microstructural Features of alpha-MnO2 Electrodes for Lithium	**Batteries**	2	582
ts on the Positive Electrode of the Corrosion of AB5 Alloys in Nickel-Metal-Hydride	**Batteries** Effec	2	456
Ni,Mn)2 Laves Phase Alloys as Negative Active Material for Ni-MH Electric Vehicle	**Batteries** Evaluation of Zr(	5	1478
Studies on Stannic Oxide as an Anode Material for Lithium-Ion	**Batteries**	1	59
anese Nickel Oxides Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies on Thin-Film	**Batteries** Lithium Mang	12	4160
oved Lithium Metal Electrode Interfacial Properties. II. Application in Rechargeable	**Batteries** Composite Polymer Electrolytes with Impr	12	4133
Electrochemistry of Anodes in Solid-State Li-Ion Polymer	**Batteries**	9	3135
Temperature Synthesized LiV3O8 as a Cathode Material for Rechargeable Lithium	**Batteries** Low-	9	3057
ead Sulfate (4PbO.PbSO4). An Intermediate Phase in the Production of Lead-Acid	**Batteries** Crystal Structure of Tetrabasic L	2	528
echanism in Fire-Retardant Polyacrylonitrile-Based Gel Electrolytes for Li Polymer	**Batteries** An Ionic Conductivity and Spectroscopic Study of Ionic Transport	3	881
The Thermal Stability of Lithium Polymer	**Batteries**	7	2327
Sulfamides and Glymes as Aprotic Solvents for Lithium	**Batteries**	10	3500
ersible Capacity in Hard-Carbon Anode Materials Prepared from Sucrose for Li-Ion	**Batteries** Reduction of the Irrev	6	1977
mical Investigations of Cobalt-Doped LiMn2O4 as Cathode Material for Lithium-Ion	**Batteries** Electroche	3	807
vanced Tool for the Selection of Electrolyte Components for Rechargeable Lithium	**Batteries** An Ad	10	3482
Micro-Macroscopic Coupled Modeling of	**Batteries** and Fuel Cells. I. Model Development	10	3497

		Issue	Page
e Cells Micro-Macroscopic Coupled Modeling of	**Batteries** and Fuel Cells. II. Application to Nickel-Cadmium and Nickel-Metal Hydrid	10	3418
iMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New Class of 5 V Cathode Materials for Li	**Batteries**. I. Electrochemical, Structural, and Spectroscopic Studies L	4	1238
Electronic Network Modeling of Rechargeable	**Batteries**. I. The Nickel and Cadmium Electrodes	11	3764
LiCuxMn2-xO4 Spinels (0.1 x 0.5): A New Class of Cathode Materials for Li	**Batteries**. II. In Situ Measurements	10	3383
Electronic Network Modeling of Rechargeable	**Batteries**. II. The NiCd System	11	3774
Self-Discharge of Sealed Nickel-Metal Hydride	**Batteries**. Mechanisms and Improvements	3	844
The Effect of the Lead Alloy Hardening Process in Electric Vehicle Storage	**Batteries** on Corrosion Resistance	9	3183
Determination of Internal Cell Pressures in Sealed Ni-MH Rechargeable	**Batteries** Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydrogen-Storage Alloys	10	3387
In Situ Raman Spectroscopy of LixV2O5 in a Lithium Rechargeable	**Battery**	3	847
Electrochemical Synthesis of Polyindole and Its Evaluation for Rechargeable	**Battery** Applications	3	999
Structural Evolution of LixMn2O4 in Lithium-Ion	**Battery** Cells Measured In Situ Using Synchrotron X-Ray Diffraction Techniques	2	466
Mechanism of Alloy Corrosion and Consequences on Sealed Nickel-Metal Hydride	**Battery** Performance	3	860
Prediction of Li Intercalation and	**Battery** Voltages in Layered vs. Cubic LixCoO2	7	2424
The Li4Ti5O12//PAN Electrolyte//LiMn2O4 Rechargeable	**Battery** with Passivation-Free Electrodes	8	2615
Reaction Mechanism for the Thermal Decomposition of	**BCl3/H2** Gas Mixtures	9	3203
hemical and Electrochemical Passivation of PbSe Thin Layers Grown by Molecular	**Beam** Epitaxy C	2	512
Elastic	**Bending** of Semiconductor Wafer Revisited and Comments on Stoney's Equation	10	3621
Spectrochemical Characterization of	**Benzotriazole** on Copper	12	4045
Effect of	**Benzotriazole** on the Anisotropic Electrolytic Etching of Copper	9	3016
on of Cadmium The Effect of Several	**Benzyl** Alcohols and Electron Bridging Anions on the Current Efficiency for Depositi	3	801
The Passivity and Breakdown of	**Beryllium** in Aqueous Solutions	8	2799
of Anodic Current Transients Resulting from Oxide Rupture of Plastically Strained	**Beta** + Alpha Titanium Modeling	6	1829
ectrode Evidence for Direct Gamma-NiOOH	**Beta-Ni(OH)2** Transitions during Electrochemical Cycling of the Nickel Hydroxide El	5	1434
Growth Kinetics of Chemical Vapor Deposition of	**Beta-SiC** from (CH3)2SiCl2/Ar	7	2516
Effects of CoSi2 on p+ Polysilicon Gates Fabricated by	**BF2+** Implantation into CoSi/Amorphous Si Bilayers	10	3590
ous Acidic Media. Mechanisms of Phase Transformations, Reactivity, and Effect of	**Bi** Species Synthesis of MnO2 Phases from LiMn2O4 in Aque	10	3392
emical Vapor Deposition Structural Investigation of the	**Bias-Enhanced** Nucleation and Growth of Diamond Films by Microwave Plasma Ch	6	2095
Decrease of Recombination Losses in	**Bicomponent** WO3/TiO2 Films Photosensitized with Cresyl Violet and Thionine	11	3981
Chemical Vapor Deposition Stability Diagram for the	**BiI3-O2** System	12	4234
on p+ Polysilicon Gates Fabricated by BF2+ Implantation into CoSi/Amorphous Si	**Bilayers** Effects of CoSi2	10	3590
Electrodeposition of Iron-Group Metals and	**Binary** Alloys from Sulfate Baths. I. Experimental Study	3	961
An Analysis of the	**Binder** Formation in Electrophoretic Deposition	4	1253
lectrochemical Performance of Pd-Coated Metal Hydride Electrodes with Different	**Binding** Additives in Alkaline Solution The E	12	4169
Proton Conductivity in Nafion 117 and in a Novel	**Bis[(perfluoroalkyl)sulfonyl]imide** Ionomer Membrane	1	107
nd Cathodically Stable Salt for Electrolytes of Lithium-Ion Cells Lithium	**Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O']** borate(1-), a New Anodically a	2	L17
gen Passing Through a Pd Sheet Electrode Effect of Pd	**Black** Deposits on Successive Hydrogenation of 4-Methylstyrene with Active Hydro	1	138
Voltammetric Studies of the Behavior of Carbon	**Black** during Phenol Oxidation on Ti/Pt Electrodes	8	2763
ing Precursors on the Electrocatalytic Activity of Heat-Treated Fe(OH)2 on Carbon	**Black** for O2 Reduction Influence of Nitrogen-Contain	7	2411
Analysis of the Superior Water	**Blocking** Ability of Electron Cyclotron Resonance-Plasma SiO2 Film	4	1338
A Theoretical Analysis of the Effect of Inert	**Blocking** Agent on the Galvanostatic Pulse Plating	11	3851
opy Study	**Blocking** Inhibitors in Cathodic Leveling. III. Electrochemical Impedance Spectrosc	5	1561
Glycosyl Halides as Building	**Blocks** for the Electrosynthesis of Glycosides	4	1108
Diode-Like Property of Prussian	**Blue** Films Containing Concentration Gradients in Serial Mixed Valent Layers	11	3788
Electrochemical Deposition of Prussian	**Blue** from a Single Ferricyanide Solution	7	2231
hemical Oxidation of 1,4-Bis(methylseleno)benzene (Selenium Analog of Wurster's	**Blue)** in Acetonitrile The Electroc	2	541
Ion Drift Processes in Pyrex-Type Alkali-Borosilicate Glass during Anodic	**Bonding**	5	1755
Present and Future Role of Chemical Mechanical Polishing in Wafer	**Bonding**	6	2198
Ultraclean Si/Si Interface Formation by Surface Preparation and Direct	**Bonding** in Ultrahigh Vacuum	5	1645
Improved GaAs	**Bonding** Process for Quasi-Phase-Matched Second Harmonic Generation	1	366
Low Temperature Silicon Wafer-to-Wafer	**Bonding** with Nickel Silicide	4	1360
g Properties Iron Passivity in	**Borate** Buffer. Formation of a Deposit Layer and Its Influence on the Semiconductin	2	609
g Force Microscopy Investigation of Surface Forces at the Tungsten Oxide/Lithium	**Borate** Interface Scannin	2	669
-Ion Cells Lithium Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O']	**borate(1-)**, a New Anodically and Cathodically Stable Salt for Electrolytes of Lithium	2	L17
ms	**Boron** Diffusion in Compressively Stressed Float Zone-Silicon Induced by Si3N4 Fil	1	258
vices Nitrogen Concentration Dependence on	**Boron** Diffusion in Thin Silicon Oxynitrides Used for Metal-Oxide-Semiconductor De	2	689
	Boron Diffusion in Silicon Oxides and Oxynitrides	6	2068
sma-Enhanced Chemical Vapor Deposited Tetraethylorthosilicate Oxide Film on a	**Boron** Implant Profile The Effect of Low-Pressure and Pla	5	1677
	Boron in Polycrystalline SixGe1-x Films. Phase Diagram and Solid Solubility	7	2530
Enhanced Diffusion of	**Boron** in Si during Doping from Borosilicate Glass	7	2534
orine Investigation of	**Boron** Penetration Through Thin Gate Dielectrics Including Role of Nitrogen and Flu	7	2545
of Lithium Salts in Nonaqueous Solutions The Synthesis of a New Family of	**Boron-Based** Anion Receptors and the Study of Their Effect on Ion Pair Dissociatio	8	2813
Structural, Spectroscopic, and Electrochemical Characterization of	**Boron-Doped** Diamond Films from Different Provenances	5	L85
Electrochemical Behavior of Highly Conductive	**Boron-Doped** Diamond Electrodes for Oxygen Reduction in Alkaline Solution	6	1870
Evaporation of Oxygen-Containing Species from	**Boron-Doped** Silicon Melts	7	2548
tion of Particle Generation during the Low-Pressure Chemical Vapor Deposition of	**Borophosphosilicate** Glass Films Investiga	6	2051
Moisture Instability of	**Borophosphosilicate** Glass and the Effects of Thermal Treatment	11	3950
Enhanced Diffusion of Boron in Si during Doping from	**Borosilicate** Glass	7	2534
Ultrathin Ta2O5 Film Capacitor with Ru	**Bottom** Electrode	8	2961
of Fluorine Passivation Using SF6 Plasma on the Corrosion of Al(Cu 1%) at Grain	**Boundaries** The Effects	3	1044
Chemical Diffusion Through Grain	**Boundaries** in Mixed Conductors	5	1762
A Finite Element Study on the Grain	**Boundary** Impedance of Different Microstructures	6	2081
Grain	**Boundary** Segregation of Cation Dopants in Alpha -Al2O3 Scales	6	1819
e Porosity of Single and Duplex PVD Coatings of Titanium and Titanium Nitride on	**Brass** Electrochemical Determination of th	12	4173
Differentiation Between Electric Breakdowns and Dielectric	**Breakdown** in Thin Silicon Oxides	3	1033
The Passivity and	**Breakdown** of Beryllium in Aqueous Solutions	8	2799
nd Dimethoxyethane Passivity and	**Breakdown** of Carbon Steel in Organic Solvent Mixtures of Propylene Carbonate a	7	2396
Differentiation Between Electric	**Breakdowns** and Dielectric Breakdown in Thin Silicon Oxides	3	1033
The Effect of Several Benzyl Alcohols and Electron	**Bridging** Anions on the Current Efficiency for Deposition of Cadmium	3	801
Excitation Effect on the Structural Change in Amorphous and Crystalline GaAs with	**Brilliant** X-Ray Irradiation Using Synchrotron Radiation Inner-Shell Electron	9	3063
hites for Lithium-Ion Cells: The Correlation of the First-Cycle Charge Loss with the	**Brunauer-Emmett-Teller** Surface Area Grap	2	428
Thermocapillary Phenomena and	**Bubble** Coalescence during Electrolytic Gas Evolution	6	1848
Low Thermal	**Budget** In Situ Surface Cleaning for Selective Silicon Epitaxy	10	3602
erties Iron Passivity in Borate	**Buffer**. Formation of a Deposit Layer and Its Influence on the Semiconducting Prop	2	609
mparative Electrochemical Study of Copper Deposition onto Silicon from Dilute and	**Buffered** Hydrofluoric Acids A Co	1	241
The Effects of Post Chemical Mechanical Planarization	**Buffing** on Defect Density of Tungsten and Oxide Wafers	12	4240
Glycosyl Halides as	**Building** Blocks for the Electrosynthesis of Glycosides	4	1108
el Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of Thin Films and	**Bulk Phases** Lithium Manganese Nick	12	4148
Current Evolution of Electrodeposited Copper	**Bumps** with Photoresist Angle	3	840
Shape Evolution of Electrodeposited	**Bumps** with Deep Cavity	9	3007
Processes in Ultrathin	**Buried** Oxide Synthesis Stimulated by Low Dose Ion Implantation	8	2964

— C —

Electrochemical Properties of Over-stoichiometric ZrMn1-xVxNi1.4+y Alloys with	**C15** Laves Phase	1	93
Direct Electrochemical Detection of	**C60** in Solution by Steady-State Voltammetry at Microelectrodes	4	1227
Electro-oxidative Deposition of	**C60** via Scanning Electrochemical Microscope	2	503
yl Alcohols and Electron Bridging Anions on the Current Efficiency for Deposition of	**Cadmium** The Effect of Several Benz	3	801
Electronic Network Modeling of Rechargeable Batteries. I. The Nickel and	**Cadmium** Electrodes	11	3764

		Issue	Page
Photoluminescence Studies of	**Cadmium** Selenide Crystals in Contact with Group III Trialkyl Derivatives	7	2475
Solution Incorporation of	**Cadmium** Sulfide into Nanoporous Silicon by Sequential Chemical Deposition from	7	2448
Quartz Crystal Microbalance Investigation of Electrochemical	**Calcium** Carbonate Scaling	7	2386
y of Chemical Vapor Deposition	**Calculation** of Gas Spectra for Quantitative Fourier Transform Infrared Spectroscop	9	3212
Differential Scanning	**Calorimetry** Study of the Reactivity of Carbon Anodes in Plastic Li-Ion Batteries	2	472
Effects of Thermal N2 Annealing on Passivation	**Capability** of Sputtered Ta(-N) Layers Against Cu Oxidation	11	4029
Discharge Rate	**Capability** of the LiCoO2 Electrode	2	482
Random Access Memory Application Optical Monitoring of	**Capacitance** in Hemispherical Grain Polycrystalline Silicon for Advanced Dynamic	11	3935
Determination of the Trap Density in Amorphous Silicon by Quasi-static	**Capacitance-Voltage** Measurements	5	1786
Control of Ion Energy in a	**Capacitively** Coupled Reactive Ion Etcher	12	4247
arrier Electrode Technology for High Density Ferroelectric Memories with Stacked	**Capacitor** Structure High Temperature B	7	2563
Ultrathin Ta2O5 Film	**Capacitor** with Ru Bottom Electrode	8	2961
Characterization of Sol-Gel-Derived Cobalt Oxide Xerogels as Electrochemical	**Capacitors**	12	4097
Behavior of Molybdenum Nitrides as Materials for Electrochemical	**Capacitors**. Comparison with Ruthenium Oxide	6	1882
ide Electrochemical	**Capacitors** Using Hydrous Ruthenium Oxide and Hydrogen Inserted Ruthenium Ox	1	49
Intercalation Electrode Behavior. I. Effect of Particle-Size Distribution on Discharge	**Capacity** A Mathematical Model for	3	771
	Capacity Fade Mechanisms and Side Reactions in Lithium-Ion Batteries	10	3647
An Investigation of	**Capacity** Fading of Manganese Spinels Stored at Elevated Temperature	11	3704
es Reduction of the Irreversible	**Capacity** in Hard-Carbon Anode Materials Prepared from Sucrose for Li-Ion Batteri	6	1977
ature On the Reduction of Lithium Insertion	**Capacity** in Hard-Carbon Anode Materials with Increasing Heat-Treatment Temper	7	2252
Optimization of the Positive Active Material	**Capacity** in Lead- Acid Cells Through Control of the Basic Lead Sulfate Precursor	10	3358
Super Dense LiC2 as a High	**Capacity** Li Intercalation Anode	7	2377
Factors Affecting the Stabilization of Mn Spinel	**Capacity** upon Storing and Cycling at High Temperatures	8	2726
mbranes Swollen in Water A Study of	**Capillary** Porous Structure and Sorption Properties of Nafion Proton-Exchange Me	8	2677
ed Si:SiO2 Surfaces Interface State	**Capture** Cross Section Measurements on Vacuum Annealed and Radiation Damag	2	683
A Novel Method of CO2	**Capture** from High Temperature Gases	4	1344
Steady-State Multiplicity Phenomena in the Deposition of Silicon	**Carbide**	11	3908
Subparabolic Oxidation Behavior of Silicon	**Carbide** at 1300 C	8	2876
A Kinetic Study of the Chemical Vapor Deposition of Silicon	**Carbide** from Dichlorodimethylsilane Precursors	4	1277
Lithium-7 Nuclear Magnetic Resonance Investigation of Lithium Insertion in Hard	**Carbon**	4	1179
Oxygen Solubilities in Si Melts: The Influence of	**Carbon** Addition	1	319
Differential Scanning Calorimetry Study of the Reactivity of	**Carbon** Anodes in Plastic Li-Ion Batteries	2	472
Heat-Treated Iron(III) Tetramethoxyphenyl Porphyrin Supported on High-Area	**Carbon** as an Electrocatalyst for Oxygen Reduction. I. Characterization of the Electr	10	3493
-Containing Precursors on the Electrocatalytic Activity of Heat-Treated Fe(OH)2 on	**Carbon** Black for O2 Reduction Influence of Nitrogen	7	2411
Voltammetric Studies of the Behavior of	**Carbon** Black during Phenol Oxidation on Ti/Pt Electrodes	8	2763
Electrochemical Reduction of 3-Chloro-2,4-pentanedione at	**Carbon** Cathodes in Acetonitrile	2	398
Catalytic Reduction of Diphenyl Disulfide by Cobalt(I) Salen Electrogenerated at a	**Carbon** Cathode in Acetonitrile	10	3374
asurements Analysis of Surface	**Carbon** Contamination on Phosphated Zinc Surfaces by Scanning Kelvin Probe Me	3	L39
The Role of	**Carbon** Dioxide in the Atmospheric Corrosion of Zinc. A Laboratory Study	1	39
ical Synthesis of Urea at Gas-Diffusion Electrodes. III. Simultaneous Reduction of	**Carbon** Dioxide and Nitrite Ions with Various Metal Catalysts Electrochem	2	595
ical Synthesis of Urea at Gas-Diffusion Electrodes. IV. Simultaneous Reduction of	**Carbon** Dioxide and Nitrate Ions with Various Metal Catalysts Electrochem	7	2348
Direct Electron Transfer for Hemoglobin in Surfactant Films Cast on	**Carbon** Electrodes	2	533
Chemical Formation of a Solid Electrolyte Interface on the	**Carbon** Electrode of a Li-Ion Cell	5	1506
tic Acid in Aqueous Solution Pd-Loaded	**Carbon** Felt as the Cathode for Selective Dechlorination of 2,4-Dichlorophenoxyace	11	3844
Optimization of the Dimensions of Vapor-Grown	**Carbon** Fiber for Use as Negative Electrodes in Lithium-Ion Rechargeable Cells	1	210
Electrochemical Studies of	**Carbon** Films from Pyrolyzed Photoresist	7	2314
Modeling Plasma-Assisted Deposition of Diamond-Like	**Carbon** Films	12	4332
ectra of Carbon Monoxide Adsorbed on Platinum Particles Dispersed in High-Area	**Carbon** in Aqueous Electrolytes In Situ Real-Time Pt LIII-Edge X-Ray Absor	1	80
Changes in the Electrochemical Behavior of Polymeric	**Carbon** Induced by Heat-Treatment and Doping with Lithium Ions	3	721
Novel Low k Dielectrics Based on Diamondlike	**Carbon** Materials	5	1649
us Electrolytes In Situ Real-Time Pt LIII-Edge X-Ray Absorption Spectra of	**Carbon** Monoxide Adsorbed on Platinum Particles Dispersed in High-Area Carbon i	1	80
SnO2/Bi2O3: A Suitable System for Selective	**Carbon** Monoxide Detection	3	1039
hlorine Species on Diamond Deposition from Plasma Jets with Chlorobenzenes as	**Carbon** Sources Effect of C	8	2895
hane Passivity and Breakdown of	**Carbon** Steel in Organic Solvent Mixtures of Propylene Carbonate and Dimethoxyet	7	2396
Lithium Insertion in	**Carbon-Silicon** Composite Materials Produced by Mechanical Milling	8	2781
Water/CO2 Mixtures Surface Cleaning and	**Carbonaceous** Film Removal Using High Pressure, High Temperature Water, and	1	284
lene Glycol-Based Waterborne Polyurethane with the Addition of LiClO4/Propylene	**Carbonate** An Investigation of Composite Electrolytes by Mixing Polyethylen	10	3450
Chloroethylene	**Carbonate**, a Solvent for Lithium-Ion Cells, Evolving CO2 during Reduction	2	L27
assivity and Breakdown of Carbon Steel in Organic Solvent Mixtures of Propylene	**Carbonate** and Dimethoxyethane P	7	2396
In Situ Investigation of the Electrochemical Reduction of	**Carbonate** Electrolyte Solutions at Graphite Electrodes	4	1081
Ion Association and Solvation Studies of LiClO4/Ethylene	**Carbonate** Electrolyte by Raman and Infrared Spectroscopy	10	3346
Model of Cathode Reaction Resistance in Molten	**Carbonate** Fuel Cells	5	1511
Characterization of a 100 cm2 Class Molten	**Carbonate** Fuel Cell with Current Interruption	8	2747
Quartz Crystal Microbalance Investigation of Electrochemical Calcium	**Carbonate** Scaling	7	2386
Time-Dependent Electrochromism of Nanocrystalline TiO2 Films in Propylene	**Carbonate** Solution of LiClO4	6	1982
The Electrochromic Behavior of Indium Tin Oxide in Propylene	**Carbonate** Solutions	7	2225
The Superiority of Asymmetric Alkyl Methyl	**Carbonates**	1	L1
steresis during Lithium Insertion into and Extraction from High-Capacity Disordered	**Carbons** Large Hy	2	478
Studies of Lithium Insertion in Ballmilled Sugar	**Carbons**	1	62
eduction on an Ink-Type Rotating Disk Electrode Using Pt Supported on High-Area	**Carbons** O2 R	11	3713
Lithium Insertion into Disordered	**Carbons** Prepared from Designed Organic Polymers	9	3123
luminum Chemical Vapor Deposition Using Dimethylaluminum Hydride Without H2	**Carrier** Gas Very Low Pressure Selective A	12	4327
Detection of Metallic Contaminants on Silicon by Surface Sensitive Minority	**Carrier** Lifetime Measurements	7	2602
Thermoelectricity of Two-Phase Mixtures, Each with a Different Type Charge	**Carrier**, p-NiO/n-ZnO	3	1008
Effect of Surface Iron on Photoconductivity	**Carrier** Recombination Lifetime of p-Type Silicon	5	1724
Temperature Dependence of	**Carrier** Recombination Lifetime in Si Wafers	9	3265
Direct Electron Transfer for Hemoglobin in Surfactant Films	**Cast** on Carbon Electrodes	2	533
Electrochemical Promotion of Pt	**Catalyst** Electrodes Deposited on Na3Zr2Si2PO12 during Ethylene Oxidation	5	1469
Electrochemical Promotion of Ethylene Oxidation on Pt	**Catalyst** Films Deposited on CeO2	4	1202
IV. Simultaneous Reduction of Carbon Dioxide and Nitrate Ions with Various Metal	**Catalysts** Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes.	7	2348
. III. Simultaneous Reduction of Carbon Dioxide and Nitrite Ions with Various Metal	**Catalysts** Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes	2	595
PtRu Alloy Colloids as Precursors for Fuel Cell	**Catalysts**. A Combined XPS, AFM, HRTEM, and RDE Study	3	925
Oxygen Reduction Characteristics of Heat-Treated	**Catalysts** Based on Cobalt-Porphyrin Ion Complexes	3	815
Methanol Tolerant Oxygen Reduction	**Catalysts** Based on Transition Metal Sulfides	10	3483
Pt Inclusion Compounds as Oxygen Reduction	**Catalysts** in Polymer-Electrolyte Fuel Cells	9	2985
Situ Electrochemical Promotion Work Function and	**Catalytic** Activity Measurements of an IrO2 Film Deposited on YSZ Subjected to In	3	905
Chemical Sensors with	**Catalytic** Metal Gates. Switching Behavior and Kinetic Phase Transitions	10	3401
Formation of	**Catalytic** Pd on ZnO Thin Films for Electroless Metal Deposition	10	3378
Carbon Cathode in Acetonitrile	**Catalytic** Reduction of Diphenyl Disulfide by Cobalt(I) Salen Electrogenerated at a	10	3374
Electrochemical Study on the Cationic Promotion of the	**Catalytic** SO2 Oxidation in Pyrosulfate Melts	11	3721
Agglomerate Model for DC and AC Response of Phosphoric Acid Fuel Cell	**Cathode**	1	45
The Search for	**Cathode** and Anode Traps in High-Voltage Stressed Silicon Oxides	4	1292
The Structure of a 3 V LixMnO2	**Cathode** and Its Change upon Electrochemical Lithiation	10	3440
ted Layered Structures Todorokite as a Li Insertion	**Cathode**. Comparison of a Large Tunnel Framework "MnO2" Structure with Its Rela	11	3746
Low Overvoltage Mechanism of High Ionic Conducting	**Cathode** for Solid Oxide Fuel Cell	3	L35
A 400 mAh/g Aerogel-like V2O5	**Cathode** for Rechargeable Lithium Batteries	5	L73
Solution Pd-Loaded Carbon Felt as the	**Cathode** for Selective Dechlorination of 2,4-Dichlorophenoxyacetic Acid in Aqueous	11	3844
ic Reduction of Diphenyl Disulfide by Cobalt(I) Salen Electrogenerated at a Carbon	**Cathode** in Acetonitrile Catalyt	10	3374

		Issue	Page
Electrochemical Investigations of Cobalt-Doped LiMn2O4 as	**Cathode** Material for Lithium-Ion Batteries	3	807
Studies LiMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New Class of 5 V	**Cathode** Materials for Li Batteries. I. Electrochemical, Structural, and Spectroscopic	4	1238
Low-Temperature Synthesized LiV3O8 as a	**Cathode** Material for Rechargeable Lithium Batteries	9	3057
lls Using a New LaGaO3 Based Oxide Ion Conductor. I. Doped SmCoO3 as a New	**Cathode** Material Intermediate Temperature Solid Oxide Fuel Ce	9	3177
Sr- and Ni-Doped LaCoO3 and LaFeO3 Perovskites. New	**Cathode** Materials for Solid-Oxide Fuel Cells	9	3220
LiCuxMn2-xO4 Spinels (0.1 x 0.5): A New Class of	**Cathode** Materials for Li Batteries. II. In Situ Measurements	10	3383
Electrosynthesis of Sodium Hydrosulfite. II. The Effect of	**Cathode** Material	12	4057
Electrosynthesis of Sodium Hydrosulfite. III. Porous	**Cathode** Materials and Process Model	12	4062
obalt Nickel Oxide Changes in Structure and	**Cathode** Performance with Composition and Preparation Temperature of Lithium C	3	730
Model of	**Cathode** Reaction Resistance in Molten Carbonate Fuel Cells	5	1511
Mass Transport in Gas-Diffusion Electrodes: A Diagnostic Tool for Fuel-Cell	**Cathodes**	1	5
sometry and In Situ Infrared Spectroscopy Surface Composition of n-GaAs	**Cathodes** during Hydrogen Evolution Characterized by In Situ Ultraviolet-Visible Ellı	2	447
3,4-thiadiazole in Acetonitrile Organosulfur/Conducting Polymer Composite	**Cathodes**. I. Voltammetric Study of the Polymerization and Depolymerization of 2,5-	6	1893
Electrochemical Reduction of 3-Chloro-2,4-pentanedione at Carbon	**Cathodes** in Acetonitrile	2	398
Highly Stable Vanadium Oxide	**Cathodes** Prepared by Plasma-Enhanced Chemical Vapor Deposition	6	1889
Evolution and Entry of Hydrogen into Iron during	**Cathodic** Charging in Alkaline Solution with Ethylenediaminetetraacetic Acid	4	1142
Mechanisms of Film Growth Rate Enhancement in Anodic and	**Cathodic** Corona-Discharge Oxidation Processes	8	2944
genated Aqueous Zinc Chloride Solutions Mechanistic Study of	**Cathodic** Electrodeposition of Zinc Oxide and Zinc Hydroxychloride Films from Oxy	3	864
Blocking Inhibitors in	**Cathodic** Leveling. III. Electrochemical Impedance Spectroscopy Study	5	1561
echanism of the Electrochemical Reduction of the Nitroolefins so Produced	**Cathodically** Promoted Addition of Nitromethane to Aldehydes and Exploratory Stu	8	2768
Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O'] borate(1-), a New Anodically and	**Cathodically** Stable Salt for Electrolytes of Lithium-Ion Cells Lithium	2	L17
Predicting and Modeling the Low-Voltage	**Cathodoluminescent** Efficiency of Oxide Phosphors	9	3165
Grain Boundary Segregation of	**Cation** Dopants in Alpha -Al2O3 Scales	6	1819
Isotopic Effects in	**Cation-Injected** Electrochromic Films	3	1023
Electrochemical Study on the	**Cationic** Promotion of the Catalytic SO2 Oxidation in Pyrosulfate Melts	11	3721
ethanol Transport in Poly(perfluorosulfonate) Membranes Containing Cs+ and H+	**Cations** Proton and M	11	3798
Gettering of Iron to Implantation Induced	**Cavities** and Oxygen Precipitates in Silicon	4	1400
Electroactive Materials Containing Macrocyclic Pseudo-Crown Ether	**Cavities** Electroformed from a Solid-State Electropolymerization Reaction	12	4110
Shape Evolution of Electrodeposited Bumps with Deep	**Cavity**	9	3007
Optimization of Polysilicon Encapsulated Local Oxidation of Silicon.	**Cavity** Dimension Effects on Mechanical Stress and Gate Oxide Integrity	5	1653
Formation of Thin Films of CdTe, CdSe, and	**CdS** by Electrochemical Atomic Layer Epitaxy	5	1442
Characteristic Features of Size-Selective Photoetching of	**CdS** Nanoparticles as a Means of Preparation of Monodisperse Particles	6	1964
Diffraction Studies Photocorrosion of Coupled	**CdS/CdSe** Photoelectrodes Coated with ZnO. Atomic Force Microscopy and X-Ray	10	3535
Formation of Thin Films of CdTe,	**CdSe**, and CdS by Electrochemical Atomic Layer Epitaxy	5	1442
Surface States and Photovoltaic Effects in	**CdSe** Quantum Dot Films	5	1748
Formation of Thin Films of	**CdTe**, CdSe, and CdS by Electrochemical Atomic Layer Epitaxy	5	1442
Deposition System Optimization of the Growth of	**CdTe** Thin Films Formed by Electrochemical Atomic Layer Epitaxy in an Automated	10	3594
plications In Situ Pulsed Deposition Studies of	**Ce(tmhd)4** on SrS Surfaces for Thin Film Electroluminescent Flat Panel Display Ap	12	4271
Secondary Current Distribution in a Curvilinear Hull	**Cell**	9	3042
A Plasticized Polymer-Electrolyte-Based Photoelectrochemical Solar	**Cell**	1	121
Raman Spectroelectrochemistry of a Lithium/Polymer Electrolyte Symmetric	**Cell**	9	3034
ow Overvoltage Mechanism of High Ionic Conducting Cathode for Solid Oxide Fuel	**Cell** L	3	L35
of Hydrogen Sulfide in an Intermediate-Temperature Ceria-Based Solid Oxide Fuel	**Cell** Utilization	5	1449
he Effect of Particle Size on the Discharge Performance of a Nickel-Metal Hydride	**Cell** T	6	1840
Electrogeneration of Hydroperoxide Ion Using an Alkaline Fuel	**Cell**	10	3444
mical Formation of a Solid Electrolyte Interface on the Carbon Electrode of a Li-Ion	**Cell** Che	5	1506
Effect of Mixed-Conducting Interfacial Layers on Solid Oxide Fuel	**Cell** Anode Performance	5	1696
ersion Impedance: A Test Geometry Effect in Characterization of Solid Oxide Fuel	**Cell** Anodes Gas Conv	7	2431
n Amorphous Hydrogenated Silicon Films for Solar	**Cell** Application Obtained with 55 kHz Plasma Enhanced Chemical Vapor Depositio	7	2508
PtRu Alloy Colloids as Precursors for Fuel	**Cell** Catalysts. A Combined XPS, AFM, HRTEM, and RDE Study	3	925
Agglomerate Model for DC and AC Response of Phosphoric Acid Fuel	**Cell** Cathode	1	45
An Electrochemical	**Cell** for Simultaneous In Situ X-Ray Diffraction and Optical Measurements	8	2759
A Nonisothermal Nickel-Hydrogen	**Cell** Model	11	3874
Characteristics and Effects of gamma-NiOOH on	**Cell** Performance and a Method to Quantify It in Nickel Electrodes	1	116
5Ni1.2)0.92 Hydrogen-Storage Alloys Determination of Internal	**Cell** Pressures in Sealed Ni-MH Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0	10	3387
ized Zirconia Solid Oxide Fuel	**Cell** with Composite Electrolyte Consisting of Samaria-Doped Ceria and Yttria-Stabil	3	1004
Characterization of a 100 cm2 Class Molten Carbonate Fuel	**Cell** with Current Interruption	8	2747
Characterization of 3 x 3 Matrix Arrays of Solution-Phase Electrochromic	**Cells**	4	L55
ression of Gas Crossover in Pt-Dispersed Polymer Electrolyte Membranes for Fuel	**Cells** Analyses of Self-Humidification and Supp	4	1137
r-Grown Carbon Fiber for Use as Negative Electrodes in Lithium-Ion Rechargeable	**Cells** Optimization of the Dimensions of Vapo	1	210
d Li4Ti5O12 and Its Electrochemistry in Polyacrylonitrile Electrolyte-Based Lithium	**Cells** Preparation of Micron-Size	8	2809
t Inclusion Compounds as Oxygen Reduction Catalysts in Polymer-Electrolyte Fuel	**Cells** P	9	2985
te(1-), a New Anodically and Cathodically Stable Salt for Electrolytes of Lithium-Ion	**Cells** Lithium Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O'] bora	2	L17
alysis of Fuel Utilization Performance of Round Substrate, Planar Solid Oxide Fuel	**Cells** An	3	931
An Along-the-Channel Model for Proton Exchange Membrane Fuel	**Cells**	4	1149
ed LaCoO3 and LaFeO3 Perovskites. New Cathode Materials for Solid-Oxide Fuel	**Cells** Sr- and Ni-Dop	9	3220
ircuit Approximation to Porous Mixed-Conducting Oxygen Electrodes in Solid-State	**Cells** Equivalent C	1	142
ion Process of Very-Low-Platinum-Loading Electrodes for Polymer Electrolyte Fuel	**Cells** Improved Preparat	11	3708
atteries and Fuel Cells. II. Application to Nickel-Cadmium and Nickel-Metal Hydride	**Cells** Micro-Macroscopic Coupled Modeling of B	10	3418
A Methanol Sensor for Portable Direct Methanol Fuel	**Cells**	11	3783
Behavior of Raipore Radiation-Grafted Polymer Membranes in H2/O2 Fuel	**Cells**	3	780
Model of Cathode Reaction Resistance in Molten Carbonate Fuel	**Cells**	5	1511
Electrochemical-Calorimetric Studies of Lithium-Ion	**Cells**	5	1489
radual Internal Methane Reforming in Intermediate-Temperature Solid-Oxide Fuel	**Cells** G	10	3487
Solar	**Cells** Coated with Fluorescent Coloring Agent	8	2955
Thermal Expansion of Nickel-Zirconia Anodes in Solid Oxide Fuel	**Cells** during Fabrication and Operation	4	1374
es High-Performance Electrode for Medium-Temperature Solid Oxide Fuel	**Cells**. Effects of Composition and Microstructures on Performance of Ceria-Based A	2	615
Chloroethylene Carbonate, a Solvent for Lithium-Ion	**Cells**, Evolving CO2 during Reduction	2	L27
14.1% CuIn1-xGaxSe2-Based Photovoltaic	**Cells** from Electrodeposited Precursors	10	3435
Micro-Macroscopic Coupled Modeling of Batteries and Fuel	**Cells**. I. Model Development	10	3407
Micro-Macroscopic Coupled Modeling of Batteries and Fuel	**Cells**. II. Application to Nickel-Cadmium and Nickel-Metal Hydride Cells	10	3418
urements Self-Discharge of LiMn2O4/C Li-Ion	**Cells** in Their Discharged State. Understanding by Means of Three-Electrode Meas	1	194
Structural Evolution of LixMn2O4 in Lithium-Ion Battery	**Cells** Measured In Situ Using Synchrotron X-Ray Diffraction Techniques	2	466
ller Surface Area Graphites for Lithium-Ion	**Cells**: The Correlation of the First-Cycle Charge Loss with the Brunauer-Emmett-Te	2	428
Optimization of the Positive Active Material Capacity in Lead- Acid	**Cells** Through Control of the Basic Lead Sulfate Precursor	10	3358
ew Cathode Material Intermediate Temperature Solid Oxide Fuel	**Cells** Using a New LaGaO3 Based Oxide Ion Conductor. I. Doped SmCoO3 as a N	9	3177
omparison of Power Densities and Chemical Potential Variation in Solid Oxide Fuel	**Cells** with Multilayer and Single-Layer Oxide Electrolytes C	1	99
Engineering of Solid Oxide Fuel	**Cells** with Ceria-Based Electrolytes	2	414
Geometric Requirements of Solid Electrolyte	**Cells** with a Reference Electrode	4	1184
Study of Tin	**Cementation** in Alkaline Solution	1	186
Recombination	**Centers** Created by Ar+-Ion Implantation into SIMOX Substrates	5	1795
lectrochemical Promotion of Ethylene Oxidation on Pt Catalyst Films Deposited on	**CeO2** E	4	1202
r Cr) Perovskite Membranes	**Ceramic** Microstructure and Oxygen Permeability of SrCo(Fe,M)O3-delta (M = Cu o	4	1363
Adhesion Mechanism of Electroless Copper Film Formed on	**Ceramic** Substrates Using ZnO Thin Film as an Intermediate Layer	5	1430
Anomalous Current Rise and Electrochemical Reduction in Fe2O3-TiO2	**Ceramics**	5	1592
and CO2 Gas Sensitivity of the CuO/ZnO Heterocontact Made by Quenched CuO	**Ceramics** Enhanced CO	2	632
Oxidation Studies of Silicon Oxynitride	**Ceramics**	4	1355
Sensing Properties of an Oxygen Sensor Using BaCe0.8Gd0.2O3-alpha	**Ceramics** as Electrolytes	5	1744

		Issue	Page
f Microstructure and Composition on Ionic Conductivity of Rare-Earth Oxide-Doped	**Ceria** Effect o	2	638
Solid Oxide Fuel Cell with Composite Electrolyte Consisting of Samaria-Doped	**Ceria** and Yttria-Stabilized Zirconia	3	1004
id Oxide Fuel Cells. Effects of Composition and Microstructures on Performance of	**Ceria-Based** Anodes High-Performance Electrode for Medium-Temperature	2	615
Engineering of Solid Oxide Fuel Cells with	**Ceria-Based** Electrolytes	2	414
Utilization of Hydrogen Sulfide in an Intermediate-Temperature	**Ceria-Based** Solid Oxide Fuel Cell	5	1449
Diffusion Coefficients of	**Cerium** and Gadolinium in Molten LiCl-KCl	1	84
Thermodynamic Behavior of Various Phases Appearing in the	**CeZrO4-CeZrO3.5** System and the Formation of Metastable Solid Solutions	4	1406
Growth Kinetics of Chemical Vapor Deposition of Beta-SiC from	**(CH3)2SiCl2/Ar**	7	2516
High Temperature Reactive Ion Etching of Indium-Tin Oxide with HBr and	**CH4** Mixtures	12	4313
nation of the Predominant Reaction Process Electrochemical Oxidation in a	**CH4-H2O** System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2 Elect	3	920
chemical Reactions Taking Place in Parallel Electrochemical Oxidation in a	**CH4-H2O** System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2 Elect	9	3117
Network Polymer Electrolytes with Free	**Chain** Ends as Internal Plasticizer	5	1521
Study of the Structural	**Change** Due to Heat-Treatment in High Resistivity Electroless NiPC Film	7	2419
ynchrotron Radiation Inner-Shell Electron Excitation Effect on the Structural	**Change** in Amorphous and Crystalline GaAs with Brilliant X-Ray Irradiation Using S	9	3063
d HCl Gases	**Change** in Microroughness of a Silicon Surface during In Situ Cleaning Using HF an	12	4264
Current	**Change** Method of Reducing Gas Sensing Using ZnO Varistors	8	2920
The Structure of a 3 V LixMnO2 Cathode and Its	**Change** upon Electrochemical Lithiation	10	3440
Morphological	**Changes** at the Interface of the Nickel-Yttria Stabilized Zirconia Point Electrode	7	2244
Microstructural	**Changes** in a Polycrystalline, Semiconducting Oxide under DC Electric Fields	12	4243
Temperature of Lithium Cobalt Nickel Oxide	**Changes** in Structure and Cathode Performance with Composition and Preparation	3	730
atment and Doping with Lithium Ions	**Changes** in the Electrochemical Behavior of Polymeric Carbon Induced by Heat-Tre	3	721
	Changes in the Environment of Hydrogen in Porous Silicon with Thermal Annealing	7	2439
rferometric Microscopy Electrochemical Behavior and Surface Morphologic	**Changes** of Copper Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole	7	2369
High Speed Print Bands. I. A Prototype Tool for Electrochemical Microfinishing and	**Character** Rounding of Print Bands Surface Finishing of	9	3047
Means of Preparation of Monodisperse Particles	**Characteristic** Features of Size-Selective Photoetching of CdS Nanoparticles as a	6	1964
o Quantify It in Nickel Electrodes	**Characteristics** and Effects of gamma-NiOOH on Cell Performance and a Method t	1	116
pO2-Dependent Nonohmic Current-Voltage	**Characteristics** and Current-Induced Redox Behavior of Junctioned SrTiO3	4	1165
Aqueous KOH Etching of Silicon (110). Etch	**Characteristics** and Compensation Methods for Convex Corners	7	2499
The Effect of Annealing on the Discharge	**Characteristics** of a Zr-V-Mn-Ni Hydrogen Storage Alloy	6	1953
es Oxygen Reduction	**Characteristics** of Heat-Treated Catalysts Based on Cobalt-Porphyrin Ion Complex	3	815
Impedance	**Characteristics** of Oxygen Reduction at a Platinum Electrode in Alkaline Electrolyte	3	936
r Deposition Using Si(OC2H5)4 and O3 Effects of Substrate on the Growth	**Characteristics** of Silicon Oxide Films Deposited by Atmospheric Pressure Chemic	8	2847
Excellent Electrical	**Characteristics** of Ultrafine Trench Isolation	5	1684
Thin Films as Oxygen Reduction Electrocatalysts. I. Physical and Electrochemical	**Characterization** Sputtered Cobalt-Carbon-Nitrogen	10	3507
Noise as a Diagnostic Tool for Semiconductor Material and Device	**Characterization**	6	2068
osition Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor Deposition and Film	**Characterization** Selective Titanium Silicide Dep	11	3941
Tribochemical Reactions of Silicon: An In Situ Infrared Spectroscopy	**Characterization**	7	2465
Formation of High Conductivity WSix Layer and Its	**Characterization** as a Gate Electrode	9	3228
	Characterization of 3 x 3 Matrix Arrays of Solution-Phase Electrochromic Cells	4	L55
ature Electrical	**Characterization** of 6H-SiC Metal Oxide Semiconductor Structures at High Temper	1	299
	Characterization of AA2024-T3 by Scanning Kelvin Probe Force Microscopy	7	2285
ruption	**Characterization** of a 100 cm2 Class Molten Carbonate Fuel Cell with Current Inter	8	2747
Structural, Spectroscopic, and Electrochemical	**Characterization** of Boron-Doped Diamond Films from Different Provenances	5	L85
Spectrochemical	**Characterization** of Benzotriazole on Copper	12	4045
e Impact on the Silicon Wafer Surface	**Characterization** of Crystal Quality by Crystal Originated Particle Delineation and th	1	275
Nondestructive Optical	**Characterization** of Chemical Conversion Coatings on Aluminum	8	2733
Silicon Substrates Growth and	**Characterization** of Eu:Y2O3 Thin-Film Phosphors on Silicon and Diamond-Coated	10	3456
of a Solid-State, Ion-Selective Electrode	**Characterization** of Electropolymerized Polyindole. Application in the Construction	12	4103
e Composition-Modulated Alloys	**Characterization** of Flow-Induced Compositional Structure in Electrodeposited NiF	8	2827
Scale Integration Complementary Metal Oxide Semiconductor Applications	**Characterization** of High Quality Nitrided Gate Dielectric Films Manufactured in Re	5	1079
ing Conditions. Mathematical Model and Experimental Study	**Characterization** of Hydrogen Permeation Through Zinc-Nickel Alloys under Corrod	6	1907
rode Configuration	**Characterization** of High-Surface-Area Electrocatalysts Using a Rotating Disk Elect	7	2354
heir Electrochemical Performance as Lithium Insertion Electrode Materials	**Characterization** of Layered Lithium Nickel Manganese Oxides Synthesized by a N	4	1113
In Situ	**Characterization** of Methylsilsesquioxane Curing	11	4007
Electro-oxidative Polymerization and Spectroscopic	**Characterization** of Novel Amide Polymers Using Diphenylamine Coupling	8	2648
Preparation and Electrochemical	**Characterization** of Overlithiated Spinel LiMn2O4	4	1131
Li-Ion Batteries Preparation and	**Characterization** of Poly(vinyl chloride-co-vinyl acetate)-Based Gel Electrolytes for	4	1207
Structural and Optical	**Characterization** of Porous 3C-SiC	7	2241
ransistors A New Charge Pumping Model and	**Characterization** of Process-Dependent Traps in Polycrystalline Silicon Thin Film T	8	2883
Gas Conversion Impedance: A Test Geometry Effect in	**Characterization** of Solid Oxide Fuel Cell Anodes	7	2431
pacitors	**Characterization** of Sol-Gel-Derived Cobalt Oxide Xerogels as Electrochemical Ca	12	4097
ations Regime In Situ	**Characterization** of the p-Si/NH4F Interface during Dissolution in the Current Oscill	2	498
Discharge Processing Electrical	**Characterization** of Thin SiO2 Films on Silicon Created by Anodic Oxygen Corona	8	2937
	Characterization of the Passive State on Zinc	9	3141
rin Supported on High-Area Carbon as an Electrocatalyst for Oxygen Reduction. I.	**Characterization** of the Electrocatalyst Heat-Treated Iron(III) Tetramethoxy	10	3493
Electrical	**Characterization** of the Semiconducting Properties of n-TiO2	10	3550
Lithium Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and	**Characterization** of Thin Films and Bulk Phases	12	4148
Fabrication and	**Characterization** of Uniform Metallic Nanostructures Using Nanochannel Glass	1	247
ns for Glucose Sensing	**Characterizations** of Iron-Containing Clay Modified Electrodes and Their Applicatio	1	154
copy Surface Composition of n-GaAs Cathodes during Hydrogen Evolution	**Characterized** by In Situ Ultraviolet-Visible Ellipsometry and In Situ Infrared Spectro	2	447
Thermoelectricity of Two-Phase Mixtures, Each with a Different Type	**Charge** Carrier, p-NiO/n-ZnO	3	1008
Current Efficiency of an Ion-Selective Membrane: Effect of Fixed	**Charge** Distribution	4	1068
imited Current. Correction for Finite Schmidt Number and Determination of Surface	**Charge** Distribution Current Distribution on a Rotating Disk Electrode below t	6	1940
Graphites for Lithium-Ion Cells: The Correlation of the First-Cycle	**Charge** Loss with the Brunauer-Emmett-Teller Surface Area	2	428
rystalline Silicon Thin Film Transistors A New	**Charge** Pumping Model and Characterization of Process-Dependent Traps in Polyc	8	2883
Improved Porous Mixture of Molybdenum Nitride and Tantalum Oxide as a	**Charge** Storage Material	4	L81
phene) as an Anode Active Material in Rechargeable Lithium-Ion Batteries	**Charge-Discharge** Properties of Composite of Synthetic Graphite and Poly(3-n-hex	5	1415
O5 Particles	**Charge-Discharge** Properties of Composite Films of Polyaniline and Crystalline V2	8	2707
the Connection to Cycle Life of Practical Batteries The Correlation Between	**Charge/Discharge** Rates and Morphology, Surface Chemistry, and Performance of	5	1421
Evolution and Entry of Hydrogen into Iron during Cathodic	**Charging** in Alkaline Solution with Ethylenediaminetetraacetic Acid	4	1142
r Beam Epitaxy	**Chemical** and Electrochemical Passivation of PbSe Thin Layers Grown by Molecula	2	512
Preparation of Indium Hydroxy Sulfide Inx(OH)ySz Thin Films by	**Chemical** Bath Deposition	8	2775
Irous Oxide Deposition and	**Chemical** Composition of Silicon Oxynitride from Methylsilazane in Ammonia and Ni	6	1902
Nondestructive Optical Characterization of	**Chemical** Conversion Coatings on Aluminum	8	2733
Incorporation of Cadmium Sulfide into Nanoporous Silicon by Sequential	**Chemical** Deposition from Solution	7	2448
	Chemical Diffusion Through Grain Boundaries in Mixed Conductors	5	1762
e, Potentiostatic, and Galvanostatic Methods to Ag1.92Te Determination of	**Chemical** Diffusion Coefficients of Mixed Ionic-Electronic Conductors with Arbitrary	6	2179
Reflecting Optical Waveguides High-Temperature Wet	**Chemical** Etching of Ta2O5 in NaOH-Based Solutions for Fabricating Antiresonant	3	1020
Ultrasmooth V-Grooves in InP by Two-Step Wet	**Chemical** Etching	4	1273
Effects of Annealing on Oxygen Depth Profiles and	**Chemical** Etching Rates of Thermally Grown Silicon Oxides	4	1306
Wet	**Chemical** Etching for V-grooves into InP Substrates	8	2931
Ion Cell	**Chemical** Formation of a Solid Electrolyte Interface on the Carbon Electrode of a Li-	5	1506
on Enhancement in	**Chemical** Interaction at Conducting Polymers/n-Si Interfaces by Their Electroreducti	2	711
Novel Statistical Metrology Framework for Identifying Sources of Variation in Oxide	**Chemical** Mechanical Polishing A	3	1052
An Investigation of Slurry Chemistry Used in	**Chemical** Mechanical Planarization of Aluminum	6	2074
Wear-Contact Problems and Modeling of	**Chemical** Mechanical Polishing	6	2100
Present and Future Role of	**Chemical** Mechanical Polishing in Wafer Bonding	6	2198
In Situ Electrochemical Investigation of Tungsten Electrochemical Behavior during	**Chemical** Mechanical Polishing	9	3190

		Issue	Page
Silicon Nitride	**Chemical** Mechanical Polishing Mechanisms	11	3919
a Wafers The Effects of Post	**Chemical** Mechanical Planarization Buffing on Defect Density of Tungsten and Oxid	12	4240
yer Oxide Electrolytes Comparison of Power Densities and	**Chemical** Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-La	1	99
	Chemical Reactions in Plasma-Assisted Chemical Vapor Deposition of Titanium	7	2558
e Transitions	**Chemical** Sensors with Catalytic Metal Gates. Switching Behavior and Kinetic Phas	10	3401
alysis of Visible Absorption Spectra Determination of	**Chemical** Species and Their Composition in Ni-Mo Alloy Plating Baths by Factor An	2	523
Fabrication of Ag/Y2O3-Stabilized ZrO2 Composite Films by Metallorganic	**Chemical** Vapor Deposition	1	L4
Toward a Unified Reaction Mechanism for	**Chemical** Vapor Deposition of Copper	1	347
A New Liquid Precursor with Improved Thermal Stability for	**Chemical** Vapor Deposition of Copper	1	362
x Thin Film with Low Hydrogen Content by Inductively Coupled Plasma Enhanced	**Chemical** Vapor Deposition Preparation of a-SiN	2	652
The Effects of Processing Parameters in the Low-Temperature	**Chemical** Vapor Deposition of Titanium Nitride from Tetraiodotitanium	2	676
mparison of Experiments with a Lumped Parameter Model of the Plasma Assisted	**Chemical** Vapor Deposition of Copper Co	2	694
Reactivity of Alkylsilanes and Alkylcarbosilanes in Atomic Hydrogen-Induced	**Chemical** Vapor Deposition	3	1060
Effect of O2 Addition on the Deposition of Pt Thin Films by Metallorganic	**Chemical** Vapor Deposition	3	1066
The Effects of Gas-Phase Additives NH3, NO, and NO2 on SiH4/O2	**Chemical** Vapor Deposition	3	1070
Optimum Conditions for Composites Fiber Coating by	**Chemical** Vapor Infiltration	4	1263
rs A Kinetic Study of the	**Chemical** Vapor Deposition of Silicon Carbide from Dichlorodimethylsilane Precurso	4	1277
Thermodynamic Study, Composition, and Microstructure of Low-Pressure	**Chemical** Vapor Deposited Silicon Dioxide Films Grown from TEOS/N2O Mixtures	4	1310
The Kinetics of the Low-Pressure	**Chemical** Vapor Deposition of Polycrystalline Silicon from Silane	4	1318
e on Surface Morphology in Selective Epitaxial TiSi2 Growth by Plasma-Enhanced	**Chemical** Vapor Deposition Effect of Fluorin	5	1640
inetics of the Formation of Titanium Nitride Layers by Rapid Thermal Low Pressure	**Chemical** Vapor Deposition from TiCl4-NH3-H2 K	5	1672
ofile The Effect of Low-Pressure and Plasma-Enhanced	**Chemical** Vapor Deposited Tetraethylorthosilicate Oxide Film on a Boron Implant Pr	5	1677
Highly Stable Vanadium Oxide Cathodes Prepared by Plasma-Enhanced	**Chemical** Vapor Deposition	6	1889
Investigation of Particle Generation during the Low-Pressure	**Chemical** Vapor Deposition of Borophosphosilicate Glass Films	6	2051
he Bias-Enhanced Nucleation and Growth of Diamond Films by Microwave Plasma	**Chemical** Vapor Deposition Structural Investigation of t	6	2095
Effect of the Gas-Phase Reaction in Metallorganic	**Chemical** Vapor Deposition of TiN from Tetrakis(dimethylamido)titanium	7	2453
Design of Injection Feed Multiwafer Low-Pressure	**Chemical** Vapor Deposition Reactors	7	2494
ted Silicon Films for Solar Cell Application Obtained with 55 kHz Plasma Enhanced	**Chemical** Vapor Deposition Amorphous Hydrogena	7	2508
Growth Kinetics of	**Chemical** Vapor Deposition of Beta-SiC from (CH3)2SiCl2/Ar	7	2516
Chemical Reactions in Plasma-Assisted	**Chemical** Vapor Deposition of Titanium	7	2558
Electron Field Emission from	**Chemical** Vapor Deposited Diamond Films	7	2572
Growth Characteristics of Silicon Oxide Films Deposited by Atmospheric Pressure	**Chemical** Vapor Deposition Using Si(OC2H5)4 and O3 Effects of Substrate	8	2847
morphous Silica Film Formation from Tetraethoxysilane in Atomic Oxygen-Induced	**Chemical** Vapor Deposition Mechanism of A	8	2866
stalline Silicon Film Deposition from H2-He-SiH4 Using Remote Plasma Enhanced	**Chemical** Vapor Deposition Microcry	8	2900
ulation of Gas Spectra for Quantitative Fourier Transform Infrared Spectroscopy of	**Chemical** Vapor Deposition Calc	9	3212
Influence of Deposition Parameters on the Texture of	**Chemical** Vapor Deposited Tungsten Films by a WF6/H2/Ar Gas Source	9	3235
recursors Ethanol-Addition-Enhanced,	**Chemical** Vapor Deposited Tantalum Oxide Films from Ta(OC2H5)5 and Oxygen P	9	3247
Complete Densification A Two-Dimensional Model of	**Chemical** Vapor Infiltration with Radio-Frequency Heating. II. Strategies to Achieve	10	3569
in Polycrystalline Silicon Films Prepared at Low Temperature by Plasma-Enhanced	**Chemical** Vapor Deposition Relationship Between Structural and Optical Pr	10	3615
Selective Titanium Silicide Deposition Using SiH4-TiCl4-H2 in Low-Pressure	**Chemical** Vapor Deposition and Film Characterization	11	3941
Remote Plasma-Enhanced	**Chemical** Vapor Deposition of SiO2 Using Ar/N2O and SiH4	11	3957
a Former Alumina Coatings Applied via Combustion	**Chemical** Vapor Deposition and Their Effects on the Oxidation of a Ni-Base Chromi	11	3986
W-Clad Layer Formation on Heavily Doped p+-Si by Selective	**Chemical** Vapor Deposition	12	4203
The Role of Gas-Phase Reactions during	**Chemical** Vapor Deposition of Copper from (hfac)Cu(tmvs)	12	4226
	Chemical Vapor Deposition Stability Diagram for the BiI3-O2 System	12	4234
as Very Low Pressure Selective Aluminum	**Chemical** Vapor Deposition Using Dimethylaluminum Hydride Without H2 Carrier G	12	4327
Tungsten	**Chemical-Mechanical** Polishing	5	1659
Thermodynamic Stability of	**Chemically** Delithiated Li(LixMn2-x)O4	2	589
	Chemically Deposited Sb2S3 and Sb2S3-CuS Thin Films	6	2113
e Lithium-Ion Batteries Electrochemistry of	**Chemically** Lithiated NaV3O8: A Positive Electrode Material for Use in Rechargeabl	2	421
ns Low Pressure	**Chemically** Vapor Deposited WO3 Thin Films for Integrated Gas Sensor Applicatio	4	1346
Thin-Film Properties and Barrier Effectiveness of	**Chemically** Vapor Deposited Amorphous WSix Film	12	4206
le Injection at the Silicon/Aqueous Electrolyte Interface: A Possible Mechanism for	**Chemiluminescence** from Porous Silicon Ho	4	1232
Use of Novel Hydrofluorocarbon and Iodofluorocarbon	**Chemistries** for a High Aspect Ratio Via Etch in a High Density Plasma Etch Tool	12	4305
Copper Dry Etching with Cl2/Ar Plasma	**Chemistry**	7	2585
The Correlation Between Charge/Discharge Rates and Morphology, Surface	**Chemistry**, and Performance of Li Electrodes and the Connection to Cycle Life of P	5	1421
xidation of Methanol Deposition of Ru Adatoms on Pt Using Organometallic	**Chemistry**. Electro-oxidation of Methanol, Ethanol, 1,2-Ethanediol, and D-Glucose	12	4182
Limitation of HF-Based	**Chemistry** for Deep-Submicron Contact Hole Cleaning on Silicides	9	3240
ed by Vibrational Spectroscopy	**Chemistry** of a Chromate Conversion Coating on Aluminum Alloy AA2024-T3 Prob	9	3083
An Investigation of Slurry	**Chemistry** Used in Chemical Mechanical Planarization of Aluminum	6	2074
Surface Roughness of Reactive Ion Etched 4H-SiC in SF6/O2 and	**CHF3/H2/O2** Plasmas	4	L58
Some Aspects of the Atmospheric Corrosion of Copper in the Presence of Sodium	**Chloride**	4	1093
Nucleation and Growth of Zinc from	**Chloride** Concentrated Solutions	12	4090
Electrochemistry of 1-Ethyl-3-methylimidazolium	**Chloride** in Acetonitrile	8	2660
the Dissolution Process of a Gold Electrode in Perchloric Acid Solution Containing	**Chloride** Ion An In Situ Electrochemical Quartz Crystal Microbalance Study	5	1614
chemistry of Thallium in the Basic Aluminum Chloride-1-methyl-3-ethylimidazolium	**Chloride** Room Temperature Molten Salt Electro	4	1196
ition of Zinc Oxide and Zinc Hydroxychloride Films from Oxygenated Aqueous Zinc	**Chloride** Solutions Mechanistic Study of Cathodic Electrodepos	3	864
oscopy Corrosion Protection of Untreated AA-2024-T3 in	**Chloride** Solution by a Chromate Conversion Coating Monitored with Raman Spectr	7	2258
Electrochemistry of Thallium in the Basic Aluminum	**Chloride-1-methyl-3-ethylimidazolium** Chloride Room Temperature Molten Salt	4	1196
Preparation and Characterization of Poly(vinyl	**chloride-co-vinyl** acetate)-Based Gel Electrolytes for Li-Ion Batteries	4	1207
Anodization and Speciation of Magnesium in	**Chloride-Rich** Room Temperature Ionic Liquids	1	24
Investigations on the Electroreduction of Titanium	**Chlorides** in AlCl3-Dimethylsulfone Electrolyte	1	110
Room Temperature Operating Solid-State Sensor for	**Chlorine** Gas	7	2445
s Carbon Sources Effect of	**Chlorine** Species on Diamond Deposition from Plasma Jets with Chlorobenzenes a	8	2895
Microelectrode Evaluation of Transition Metal-Aluminum Alloy Electrodepositions in	**Chloroaluminate** Ionic Liquids	5	1598
ctrodeposition of Copper and Copper-Aluminum Alloys from a Room-Temperature	**Chloroaluminate** Molten Salt Ele	9	3110
Effect of Chlorine Species on Diamond Deposition from Plasma Jets with	**Chlorobenzenes** as Carbon Sources	8	2895
eduction	**Chloroethylene** Carbonate, a Solvent for Lithium-Ion Cells, Evolving CO2 during R	2	L27
tective Films on Copper by Multistep Modification of an Alkanethiol Monolayer with	**Chlorosilanes** and Alkanediol Pro	8	2786
Microscopy Nucleation of	**Chromate** Conversion Coating on Aluminum 2024-T3 Investigated by Atomic Force	1	L11
Corrosion Protection of Untreated AA-2024-T3 in Chloride Solution by a	**Chromate** Conversion Coating Monitored with Raman Spectroscopy	7	2258
l Spectroscopy Chemistry of a	**Chromate** Conversion Coating on Aluminum Alloy AA2024-T3 Probed by Vibrationa	9	3083
ustion Chemical Vapor Deposition and Their Effects on the Oxidation of a Ni-Base	**Chromia** Former Alumina Coatings Applied via Comb	11	3986
Synthesis and Properties of Mixed Lanthanide	**Chromite** Perovskites	12	4282
The Mechanism of the Transpassive Dissolution of	**Chromium** in Acidic Sulfate Solutions	6	2043
ormed during High Temperature Oxidation on the Corrosion Resistance of Ferritic	**Chromium** Steel The Effect of Nonstoichiometry of Surface Oxides F	7	2236
e Cells Equivalent	**Circuit** Approximation to Porous Mixed-Conducting Oxygen Electrodes in Solid-Stat	1	142
tion of Ag Equivalent	**Circuit** Modeling of the AgAs0.24S0.36Ag0.40Ag System Prepared by Photodissolu	9	2971
The Development of a Stable	**Citrate** Electrolyte for the Electrodeposition of Copper-Nickel Alloys	3	875
Dry Etching of Deep Si Trenches for Released Resonators in a	**Cl2** Plasma	5	1767
	Cl2-Based Inductively Coupled Plasma Etching of NiFe and Related Materials	11	4025
Copper Dry Etching with	**Cl2/Ar** Plasma Chemistry	7	2585
Characterization of a 100 cm2	**Class** Molten Carbonate Fuel Cell with Current Interruption	8	2747
pectroscopic Studies LiMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New	**Class** of 5 V Cathode Materials for Li Batteries. I. Electrochemical, Structural, and S	4	1238
LiCuxMn2-xO4 Spinels (0.1 x 0.5): A New	**Class** of Cathode Materials for Li Batteries. II. In Situ Measurements	10	3383
Characterizations of Iron-Containing	**Clay** Modified Electrodes and Their Applications for Glucose Sensing	1	154
lucose	**Clay-Enhanced** Electrochemiluminescence and Its Application in the Detection of G	8	2654
The Reaction of	**Clean** Li Surfaces with Small Molecules in Ultrahigh Vacuum. II. Water	1	159

		Issue	Page
e Water, and Water/CO2 Mixtures Surface	**Cleaning** and Carbonaceous Film Removal Using High Pressure, High Temperatur	1	284
Low Thermal Budget In Situ Surface	**Cleaning** for Selective Silicon Epitaxy	10	3602
Limitation of HF-Based Chemistry for Deep-Submicron Contact Hole	**Cleaning** on Silicides	9	3240
Change in Microroughness of a Silicon Surface during In Situ	**Cleaning** Using HF and HCl Gases	12	4264
Contamination Removal by Single-Wafer Spin	**Cleaning** with Repetitive Use of Ozonized Water and Dilute HF	9	3278
Nanofabrication of Small Palladium	**Clusters** on Au(111) Electrodes with a Scanning Tunnel Microscope	3	L33
Characterization of a 100	**cm2** Class Molten Carbonate Fuel Cell with Current Interruption	8	2747
O Ceramics Enhanced	**CO** and CO2 Gas Sensitivity of the CuO/ZnO Heterocontact Made by Quenched Cu	2	632
Magnetoresistance Effect in	**Co-Ag** and Co-Cu Alloy Films Prepared by Electrodeposition	2	585
Magnetoresistance Effect in Co-Ag and	**Co-Cu** Alloy Films Prepared by Electrodeposition	2	585
The Influence of	**CO2** and NaCl on the Atmospheric Corrosion of Zinc. A Laboratory Study	9	2993
Photoelectrochemical Reduction of	**CO2** at High Current Densities at p-InP Electrodes	5	L82
A Novel Method of	**CO2** Capture from High Temperature Gases	4	1344
Chloroethylene Carbonate, a Solvent for Lithium-Ion Cells, Evolving	**CO2** during Reduction	2	L27
mics Enhanced CO and	**CO2** Gas Sensitivity of the CuO/ZnO Heterocontact Made by Quenched CuO Cera	2	632
d Stabilized Zirconia Influence of Humidity on a Potentiometric	**CO2** Gas Sensor Using a Combined Electrolyte of Sodium Ion Conducting Glass an	9	2981
nductor Films Mechanistic Studies of	**CO2** Reduction on a Mediated Electrode with Conducting Polymer and Inorganic Co	11	3801
Thermocapillary Phenomena and Bubble	**Coalescence** during Electrolytic Gas Evolution	6	1848
Solar Cells	**Coated** with Fluorescent Coloring Agent	8	2955
Photocorrosion of Coupled CdS/CdSe Photoelectrodes	**Coated** with ZnO. Atomic Force Microscopy and X-Ray Diffraction Studies	10	3535
Optimum Conditions for Composites Fiber	**Coating** by Chemical Vapor Infiltration	4	1263
Monolithic, Self-Powered Photovoltaic-Electrochromic	**Coating** for Windows	10	3545
rotection of Untreated AA-2024-T3 in Chloride Solution by a Chromate Conversion	**Coating** Monitored with Raman Spectroscopy Corrosion P	7	2258
Nucleation of Chromate Conversion	**Coating** on Aluminum 2024-T3 Investigated by Atomic Force Microscopy	1	L11
Chemistry of a Chromate Conversion	**Coating** on Aluminum Alloy AA2024-T3 Probed by Vibrational Spectroscopy	9	3083
Impedance Studies of the Oxygen Reduction on Thin Porous	**Coating** Rotating Platinum Electrodes	7	2307
he Oxidation of a Ni-Base Chromia Former Alumina	**Coatings** Applied via Combustion Chemical Vapor Deposition and Their Effects on t	11	3986
Studies on Electroless Cobalt	**Coatings** for Microencapsulation of Hydrogen Storage Alloys	9	3000
Monitoring Degradation of Single and Multilayer Organic	**Coatings**. I. Absorption and Transport of Water: Theoretical Analysis and Methods	11	3830
Electrochemical Determination of the Porosity of Single and Duplex PVD	**Coatings** of Titanium and Titanium Nitride on Brass	12	4173
Nondestructive Optical Characterization of Chemical Conversion	**Coatings** on Aluminum	8	2733
Studies on Electroless	**Cobalt** Coatings for Microencapsulation of Hydrogen Storage Alloys	9	3000
d Cathode Performance with Composition and Preparation Temperature of Lithium	**Cobalt** Nickel Oxide Changes in Structure an	3	730
Characterization of Sol-Gel-Derived	**Cobalt** Oxide Xerogels as Electrochemical Capacitors	12	4097
Catalytic Reduction of Diphenyl Disulfide by	**Cobalt(I)** Salen Electrogenerated at a Carbon Cathode in Acetonitrile	10	3374
cal and Electrochemical Characterization Sputtered	**Cobalt-Carbon-Nitrogen** Thin Films as Oxygen Reduction Electrocatalysts. I. Physi	10	3507
rochemical Stability and Proposed Mechanism Sputtered	**Cobalt-Carbon-Nitrogen** Thin Films as Oxygen Reduction Electrocatalysts. II. Elect	10	3513
Electrochemical Investigations of	**Cobalt-Doped** LiMn2O4 as Cathode Material for Lithium-Ion Batteries	3	907
Oxygen Reduction Characteristics of Heat-Treated Catalysts Based on	**Cobalt-Porphyrin** Ion Complexes	3	815
Oxidation Behavior of a Ni-La2O3	**Codeposited** Film on Nickel	2	389
Reaction Kinetics of LaCrO3 from the Oxides and Determination of La3+ Diffusion	**Coefficient** Solid-State	6	2090
Al0.3 Using Microelectrodes Determination of the Diffusion	**Coefficient** and Phase-Transfer Rate Parameter in LaNi5 and MmNi3.6Co0.8Mn0.4	11	3740
Diffusion	**Coefficients** of Cerium and Gadolinium in Molten LiCl-KCl	1	84
d Galvanostatic Methods to Ag1.92Te Determination of Chemical Diffusion	**Coefficients** of Mixed Ionic-Electronic Conductors with Arbitrary Electronic Transpo	6	2179
The Mechanism of the Oxidative Dissolution of	**Colloidal** Gold in Cyanide Media	2	408
d RDE Study PtRu Alloy	**Colloids** as Precursors for Fuel Cell Catalysts. A Combined XPS, AFM, HRTEM, an	3	925
From ZnO	**Colloids** to Nanocrystalline Highly Conductive Films	10	3632
Deposition Temperature Dependence of Optical Gap and	**Coloration** Efficiency Spectrum in Electrochromic Tungsten Oxide Films	5	1729
Transformation of	**Colored** Random Noise by Kronig-Kramers Transforms	2	L20
Solar Cells Coated with Fluorescent	**Coloring** Agent	8	2955
Highly Sensitive Microbiosensor for Creatinine Based on the	**Combination** of Inactive Polypyrrole with Polyion Complexes	2	406
Influence of Humidity on a Potentiometric CO2 Gas Sensor Using a	**Combined** Electrolyte of Sodium Ion Conducting Glass and Stabilized Zirconia	9	2981
PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. A	**Combined** XPS, AFM, HRTEM, and RDE Study	3	925
Base Chromia Former Alumina Coatings Applied via	**Combustion** Chemical Vapor Deposition and Their Effects on the Oxidation of a Ni-	11	3986
Elastic Bending of Semiconductor Wafer Revisited and	**Comments** on Stoney's Equation	10	3621
Transition Metal Oxides	**Common** Electroanalytical Behavior of Li Intercalation Processes into Graphite and	9	3024
nd Buffered Hydrofluoric Acids A	**Comparative** Electrochemical Study of Copper Deposition onto Silicon from Dilute a	1	241
stalline Ru Powder in NaOH Solution	**Comparative** Study of the Electrochemical Behavior of Polycrystalline and Nanocry	5	1624
Drastic Improvements of Gate Oxide Reliability by Argon Annealing	**Compared** with Hydrogen Annealing	10	3628
ed Structures Todorokite as a Li Insertion Cathode.	**Comparison** of a Large Tunnel Framework "MnO2" Structure with Its Related Layer	11	3746
ilm and Passivation Film on Fe-Ti Alloy	**Comparison** of Corrosion Resistances Between Fe2O3-TiO2 Artificial Passivation F	8	2818
ed Chemical Vapor Deposition of Copper	**Comparison** of Experiments with a Lumped Parameter Model of the Plasma Assist	2	694
Continuous Wave RF Plasmas	**Comparison** of Oxidation Rates for a-Si1-xCx:H Films Deposited from Pulsed and	9	3271
el Cells with Multilayer and Single-Layer Oxide Electrolytes	**Comparison** of Power Densities and Chemical Potential Variation in Solid Oxide Fu	1	99
h the Passive Film on Iron	**Comparison** of the Semiconductive Properties of Sputter-Deposited Iron Oxides wit	2	378
Denuded Zone Thickness from Surface Photovoltage Measurements.	**Comparison** with Microscopy Techniques	6	1632
Behavior of Molybdenum Nitrides as Materials for Electrochemical Capacitors.	**Comparison** with Ruthenium Oxide	6	1882
Aqueous KOH Etching of Silicon (110). Etch Characteristics and	**Compensation** Methods for Convex Corners	7	2499
Films Manufactured in Reduced Pressure Furnace for Ultralarge Scale Integration	**Complementary** Metal Oxide Semiconductor Applications Characterization	5	1679
Chemical Vapor Infiltration with Radio-Frequency Heating. II. Strategies to Achieve	**Complete** Densification A Two-Dimensional Model of	10	3569
Properties of Polyphenylquinoxaline Acid	**Complex** as an Electrode Material	4	1193
Electrochemical Study of NO Conversion from Fe(II)-EDTA-NO	**Complex** on Pt Electrodes	1	53
eduction Characteristics of Heat-Treated Catalysts Based on Cobalt-Porphyrin Ion	**Complexes** Oxygen R	3	815
ensor for Creatinine Based on the Combination of Inactive Polypyrrole with Polyion	**Complexes** Highly Sensitive Microbios	2	406
An Advanced Tool for the Selection of Electrolyte	**Components** for Rechargeable Lithium Batteries	10	3482
ercapto-1,3,4-thiadiazole in Acetonitrile Organosulfur/Conducting Polymer	**Composite** Cathodes. I. Voltammetric Study of the Polymerization and Depolymeriz	6	1893
onia Solid Oxide Fuel Cell with	**Composite** Electrolyte Consisting of Samaria-Doped Ceria and Yttria-Stabilized Zirc	3	1004
onia in the Improvement of Electrochemical Performance of Lanthanum Manganite	**Composite** Electrodes The Role of 8 mol % Yttria Stabilized Zirc	6	1932
Electrochemical Properties of GeS2-Based Glass-Polymer	**Composite** Electrolytes for Lithium-Ion Batteries	6	1949
ethane with the Addition of LiClO4/Propylene Carbonate An Investigation of	**Composite** Electrolytes by Mixing Polyethylene Oxide- and Polytetramethylene Gly	10	3450
Fabrication of Ag/Y2O3-Stabilized ZrO2	**Composite** Films by Metallorganic Chemical Vapor Deposition	1	L4
Electrochemical Formation of Polypyrrole/SiO2	**Composite** Film and Its Application to Organic Electroluminescence Devices	4	1126
Charge-Discharge Properties of	**Composite** Films of Polyaniline and Crystalline V2O5 Particles	8	2707
Modeling Side Reactions in	**Composite** LiyMn2O4 Electrodes	3	990
Lithium Insertion in Carbon-Silicon	**Composite** Materials Produced by Mechanical Milling	8	2751
erial in Rechargeable Lithium-Ion Batteries Charge-Discharge Properties of	**Composite** of Synthetic Graphite and Poly(3-n-hexylthiophene) as an Anode Active	5	1415
Electrochemical Resistance Noise during	**Composite** Plating	2	436
Properties. I. Electrochemical Properties of Dry PEO-LiX System	**Composite** Polymer Electrolytes with Improved Lithium Metal Electrode Interfacial	12	4126
Properties. II. Application in Rechargeable Batteries	**Composite** Polymer Electrolytes with Improved Lithium Metal Electrode Interfacial	12	4133
opic Properties and Humidity Sensitivity of Polyaniline Derivatives/Polyvinyl Alcohol	**Composites** Thermogravimetric/Mass and Infrared Spectrosc	10	3351
rix Composites. II. Electrocatalysis of Oxygen Evolution Reaction on Tl2O3/Co3O4	**Composites** Electrodeposited Tl2O3-Mat	2	555
Optimum Conditions for	**Composites** Fiber Coating by Chemical Vapor Infiltration	4	1263
ix Electrodeposited Tl2O3-Matrix	**Composites**. I. Effect of the Dispersed Phase on Nucleation and Growth of the Matr	2	549
mposites Electrodeposited Tl2O3-Matrix	**Composites**. II. Electrocatalysis of Oxygen Evolution Reaction on Tl2O3/Co3O4 Co	2	555
Performance Electrode for Medium-Temperature Solid Oxide Fuel Cells. Effects of	**Composition** and Microstructures on Performance of Ceria-Based Anodes	2	615
Changes in Structure and Cathode Performance with	**Composition** and Preparation Temperature of Lithium Cobalt Nickel Oxide	3	730
on Dioxide Films Grown from TEOS/N2O Mixtures Thermodynamic Study,	**Composition**, and Microstructure of Low-Pressure Chemical Vapor Deposited Silic	4	1310
Spectra Determination of Chemical Species and Their	**Composition** in Ni-Mo Alloy Plating Baths by Factor Analysis of Visible Absorption	2	523

		Issue	Page
tu Ultraviolet-Visible Ellipsometry and In Situ Infrared Spectroscopy Surface	**Composition** of n-GaAs Cathodes during Hydrogen Evolution Characterized by In	2	447
ide Deposition and Chemical	**Composition** of Silicon Oxynitride from Methylsilazane in Ammonia and Nitrous Oxi	6	1902
In Situ Determination of the	**Composition** of Surface Films Formed on Fe-Cr Alloys	6	1922
Effect of Microstructure and	**Composition** on Ionic Conductivity of Rare-Earth Oxide-Doped Ceria	2	638
haracterization of Flow-Induced Compositional Structure in Electrodeposited NiFe	**Composition-Modulated** Alloys C	8	2827
Characterization of Flow-Induced	**Compositional** Structure in Electrodeposited NiFe Composition-Modulated Alloys	8	2827
tor Field Effect Transistor Optimization of SiON Film	**Compositions** for Encapsulation of Refractory Metal Gate GaAs Metal-Semiconduc	1	323
Ternary	**Compounds** and Phase Equilibria in Ti-Ge-C and Ti-Ge-B	9	3253
Pt Inclusion	**Compounds** as Oxygen Reduction Catalysts in Polymer-Electrolyte Fuel Cells	9	2985
Boron Diffusion in	**Compressively** Stressed Float Zone-Silicon Induced by SiN4 Films	1	258
f Tetrahydrofuran	**Computational** Studies of Lithium Intercalation in Model Graphite in the Presence o	10	3328
Dislocations in Large-Diameter Silicon Wafers Studied by X-Ray Topography and	**Computer** Simulation Gravitational Stress-Induced	7	2523
Aluminum and Aluminum Alloy Dissolution in	**Concentrated** Phosphoric Acid	12	4067
Nucleation and Growth of Zinc from Chloride	**Concentrated** Solutions	12	4090
Impact of Floating Gate Dopant	**Concentration** and Interpoly Dielectric Processing on Tunnel Dielectric Reliability	4	1351
Metal-Oxide-Semiconductor Devices Nitrogen	**Concentration** Dependence on Boron Diffusion in Thin Silicon Oxynitrides Used for	2	689
Diode-Like Property of Prussian Blue Films Containing	**Concentration** Gradients in Serial Mixed Valent Layers	11	3788
Ga0.7As Effects of Stoichiometry and Te	**Concentration** on the Deep Levels in Liquid-Phase Epitaxially Grown n-Type Al0.3	8	2905
sist New	**Concept** of Contrast Enhancement of Resist and Its Application to Positive-Type Re	4	1335
A Novel Nanolithographic	**Concept** Using Crack-Assisted Patterning and Self-Alignment Technology	6	2120
Electrodeposition of Copper under Microgravity	**Conditions**	6	1876
al Behavior of p-Type (100) GaAs in Copper Sulfate Solution. Influence of Surface	**Conditions** The Electrochemic	9	3075
Oxidation and Reduction of Liquid SnPb (60/40) under Ambient and Vacuum	**Conditions**	6	2138
trogen Incorporation in Thin Silicon Oxides in a N2O Plasma. Effects of Processing	**Conditions** Ni	2	662
Thinning Behavior in Local Oxidation of Silicon Process under Enhanced Oxidation	**Conditions** Field Oxide	5	1664
Optimum	**Conditions** for Composites Fiber Coating by Chemical Vapor Infiltration	4	1263
racterization of Hydrogen Permeation Through Zinc-Nickel Alloys under Corroding	**Conditions**. Mathematical Model and Experimental Study Cha	6	1907
The Effect of Processing	**Conditions** on Crystal Orientation and Structure in ZnS:Mn Thin Films	1	226
e Study Effect of Low-Temperature	**Conditions** on Passive Layer Growth on Li Intercalation Materials. In Situ Impedanc	8	2711
tion of Dissociation Parameters of Electrolytes at High Temperatures from Specific	**Conductance** Data Estima	12	4107
Low Overvoltage Mechanism of High Ionic	**Conducting** Cathode for Solid Oxide Fuel Cell	3	L35
on a Potentiometric CO2 Gas Sensor Using a Combined Electrolyte of Sodium Ion	**Conducting** Glass and Stabilized Zirconia Influence of Humidity	9	2981
Enhancement in Chemical Interaction at	**Conducting** Polymers/n-Si Interfaces by Their Electroreduction	2	711
Mechanistic Studies of CO2 Reduction on a Mediated Electrode with	**Conducting** Polymer and Inorganic Conductor Films	11	3801
nts Protonic and Native	**Conduction** in Sr-Substituted LaPO4 Studied by Thermoelectric Power Measureme	10	3313
O3 Thin Films	**Conduction** Mechanism and Temperature-Dependent Current-Voltage in (Ba, Sr)Ti	8	2853
lution Electrochemical Behavior of Highly	**Conductive** Boron-Doped Diamond Electrodes for Oxygen Reduction in Alkaline So	6	1870
From ZnO Colloids to Nanocrystalline Highly	**Conductive** Films	10	3632
f Aging on Yttria-Stabilized Zirconia. III. A Study of the Effect of Local Structures on	**Conductivity** Effect o	5	1550
Aging on Yttria-Stabilized Zirconia. II. A Study of the Effect of the Microstructure on	**Conductivity** Effect of	5	1536
nt Polyacrylonitrile-Based Gel Electrolytes for Li Polymer Batteries An Ionic	**Conductivity** and Spectroscopic Study of Ionic Transport Mechanism in Fire-Retard	3	881
er Membrane Proton	**Conductivity** in Nafion 117 and in a Novel Bis[(perfluoroalkyl)sulfonyl]imide Ionom	1	107
-Based Anion Receptors and the Study of Their Effect on Ion Pair Dissociation and	**Conductivity** of Lithium Salts in Nonaqueous Solutions The Synthesis of a	8	2813
Effect of Microstructure and Composition on Ionic	**Conductivity** of Rare-Earth Oxide-Doped Ceria	2	638
Formation of High	**Conductivity** WSix Layer and Its Characterization as a Gate Electrode	9	3228
f CO2 Reduction on a Mediated Electrode with Conducting Polymer and Inorganic	**Conductor** Films Mechanistic Studies o	11	3801
ediate Temperature Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion	**Conductor**. I. Doped SmCoO3 as a New Cathode Material Interm	9	3177
Chemical Diffusion Through Grain Boundaries in Mixed	**Conductors**	5	1762
of Dopants and A:B Site Nonstoichiometry on Properties of Perovskite-Type Proton	**Conductors** The Effects	5	1760
Determination of Chemical Diffusion Coefficients of Mixed Ionic-Electronic	**Conductors** with Arbitrary Electronic Transport Numbers. Application of Impedance	6	2179
acterization of High-Surface-Area Electrocatalysts Using a Rotating Disk Electrode	**Configuration** Char	7	2354
alance Studies of Leveling Effects of Thiourea on Copper Deposition	**Confocal** Laser Scanning Microscopy, Electrochemistry, and Quartz Crystal Microb	3	957
Gradient Control of Magnetic Properties in Electroless-Deposited	**CoNiP** Thin Films	1	134
tes and Morphology, Surface Chemistry, and Performance of Li Electrodes and the	**Connection** to Cycle Life of Practical Batteries The Correlation Between Ch	5	1421
Mechanism of Alloy Corrosion and	**Consequences** on Sealed Nickel-Metal Hydride Battery Performance	3	860
etal Oxide Semiconductor Field Effect Transistors Parasitic Resistance	**Considerations** of Using Elevated Source/Drain Technology for Deep Submicron M	6	2131
Solid Oxide Fuel Cell with Composite Electrolyte	**Consisting** of Samaria-Doped Ceria and Yttria-Stabilized Zirconia	3	1004
	Constant Voltage Anodizing of Mg-Al Alloys in KOH-Al(OH)3 Solutions	1	190
Characterization of Electropolymerized Polyindole. Application in the	**Construction** of a Solid-State, Ion-Selective Electrode	12	4103
Hydrophobicity of a Hydrochloric-Treated GaAs Surface Analyzed by	**Contact** Angle Measurement	4	1381
onfaradaic Yields A Study on the Origin of Nonfaradaic Behavior of Anodic	**Contact** Glow Discharge Electrolysis. The Relationship Between Power Dissipated i	7	2209
Limitation of HF-Based Chemistry for Deep-Submicron	**Contact** Hole Cleaning on Silicides	9	3240
Reduction in	**Contact** Resistance with In Situ O2 Plasma Treatment	7	2480
Photoluminescence Studies of Cadmium Selenide Crystals in	**Contact** with Group III Trialkyl Derivatives	7	2475
A	**Contactless** Method for the Directed Formation of Submicrometer Copper Wires	3	L45
nts Detection of Metallic	**Contaminants** on Silicon by Surface Sensitive Minority Carrier Lifetime Measureme	7	2602
hotoconductance Studies of Ultraviolet-Irradiated Silicon Wafers. Effect of Metallic	**Contamination** Laser Microwave P	1	329
s (SC1) on 5 nm Gate Oxides Impact of Iron	**Contamination** and Roughness Generated in Ammonia Hydrogen Peroxide Mixture	7	2589
An Optical Method for Monitoring Metal	**Contamination** during Aqueous Processing of Silicon Wafers	5	1688
Fast-Feedback Iron	**Contamination** Monitoring Using Surface Photovoltage Measurements	2	701
ents Analysis of Surface Carbon	**Contamination** on Phosphated Zinc Surfaces by Scanning Kelvin Probe Measurem	3	L39
nized Water and Dilute HF	**Contamination** Removal by Single-Wafer Spin Cleaning with Repetitive Use of Ozo	9	3278
La1-xBaxCr1-yTiyO3 with Varied Oxygen	**Content**	1	264
Preparation of a-SiNx Thin Film with Low Hydrogen	**Content** by Inductively Coupled Plasma Enhanced Chemical Vapor Deposition	2	652
Comparison of Oxidation Rates for a-Si1-xCx:H Films Deposited from Pulsed and	**Continuous** Wave RF Plasmas	9	3271
New Concept of	**Contrast** Enhancement of Resist and Its Application to Positive-Type Resist	4	1335
on Pattern Formation in Electrode Reactions. From Potentiostatic to Galvanostatic	**Control** The Impact of the Operation Mode	7	2404
ment of AlInAs/GaInAs High Electron Mobility Transistors by Fluorine Incorporation	**Control** Reliability Improve	8	2951
Electrosynthesis of Sodium Hydrosulfite. I. Development of an Online Process	**Control** Monitor	12	4052
Gradient	**Control** of Ion Energy in a Capacitively Coupled Reactive Ion Etcher	12	4247
Optimization of the Positive Active Material Capacity in Lead- Acid Cells Through	**Control** of Magnetic Properties in Electroless-Deposited CoNiP Thin Films	1	134
ductor Structures	**Control** of the Basic Lead Sulfate Precursor	10	3358
hic Interferometry Ionic Mass-Transfer Rates Associated with Natural	**Controlled** Anodic Oxidation for High Precision Etch Depth in AlGaAs III-V Semicon	3	1076
ng Hemispherical Electrode. Accurate Expressions for the Limiting Current and the	**Convection** along a Plane Vertical Anode Measured by Two-Wavelength Holograp	11	3814
py Nucleation of Chromate	**Convective** Warburg Impedance Rotati	12	4189
Corrosion Protection of Untreated AA-2024-T3 in Chloride Solution by a Chromate	**Conversion** Coating on Aluminum 2024-T3 Investigated by Atomic Force Microsco	1	L11
Nondestructive Optical Characterization of Chemical	**Conversion** Coating Monitored with Raman Spectroscopy	7	2258
copy Chemistry of a Chromate	**Conversion** Coatings on Aluminum	8	2733
Electrochemical Study of NO	**Conversion** Coating on Aluminum Alloy AA2024-T3 Probed by Vibrational Spectros	9	3083
Fuel Cell Anodes Gas	**Conversion** from Fe(II)-EDTA-NO Complex on Pt Electrodes	1	83
KOH Etching of Silicon (110). Etch Characteristics and Compensation Methods for	**Conversion** Impedance: A Test Geometry Effect in Characterization of Solid Oxide	7	2431
Toward a Unified Reaction Mechanism for Chemical Vapor Deposition of	**Convex** Corners Aqueous	7	2499
Liquid Precursor with Improved Thermal Stability for Chemical Vapor Deposition of	**Copper**	1	347
Spectrochemical Characterization of Benzotriazole on	**Copper** A New	1	362
Effect of Benzotriazole on the Anisotropic Electrolytic Etching of	**Copper**	12	4045
a Lumped Parameter Model of the Plasma Assisted Chemical Vapor Deposition of	**Copper**	9	3016
Molten Salt Electrodeposition of	**Copper** Comparison of Experiments with	2	694
	Copper and Copper-Aluminum Alloys from a Room-Temperature Chloroaluminate	9	3110

		Issue	Page
Current Evolution of Electrodeposited	**Copper** Bumps with Photoresist Angle	3	840
d Alkanediol Protective Films on	**Copper** by Multistep Modification of an Alkanethiol Monolayer with Chlorosilanes an	8	2786
nolayer Protection of	**Copper** Corrosion by an Ultrathin Two-Dimensional Polymer Film of Alkanethiol Mo	6	1856
A Laboratory Study of the Effect of Acetic Acid Vapor on Atmospheric	**Copper** Corrosion	12	4140
A Comparative Electrochemical Study of	**Copper** Deposition onto Silicon from Dilute and Buffered Hydrofluoric Acids	1	241
Electrochemical Impedance Spectroscopy of	**Copper** Deposition on Silicon from Dilute Hydrofluoric Acid Solutions	1	352
mistry, and Quartz Crystal Microbalance Studies of Leveling Effects of Thiourea on	**Copper** Deposition Confocal Laser Scanning Microscopy, Electroche	3	957
Sequential Observation of Electroless	**Copper** Deposition via Noncontact Atomic Force Microscopy	9	3301
alance Study	**Copper** Deposition in the Presence of Polyethylene Glycol. I. Quartz Crystal Microb	10	3472
dance Spectroscopy	**Copper** Deposition in the Presence of Polyethylene Glycol. II. Electrochemical Impe	10	3477
Barrier Properties of Very Thin Ta and TaN Layers Against	**Copper** Diffusion	7	2538
Sputtered Cr and Reactively Sputtered CrNx Serving as Barrier Layers Against	**Copper** Diffusion	12	4290
	Copper Dry Etching with Cl2/Ar Plasma Chemistry	7	2585
Pulse Reverse	**Copper** Electrodeposition in High Aspect Ratio Trenches and Vias	9	3070
Adsorption of Thiourea on	**Copper** Electrodes Monitored by In Situ Infrared Spectroscopy	10	3366
n Low Temperature	**Copper** Etching Using an Inductively Coupled Plasma with Ultraviolet Light Irradiatio	3	L37
te Layer Adhesion Mechanism of Electroless	**Copper** Film Formed on Ceramic Substrates Using ZnO Thin Film as an Intermedia	5	1430
The Role of Gas-Phase Reactions during Chemical Vapor Deposition of	**Copper** from (hfac)Cu(tmvs)	12	4226
/H2 Process Atomic Layer Epitaxy of	**Copper**. Growth and Selectivity in the Cu(II)-2,2,6,6-tetramethyl-3,5-heptanedionate	8	2926
A Reaction-Plane Model for the Open-Circuit Potential of	**Copper** in Aerated Copper Sulfate Solution	2	590
Active/Passive Behavior of	**Copper** in Strong Sulfuric Acid	2	601
Atmospheric Corrosion of	**Copper** in the Presence of Acid Ammonium Sulfate Particles	3	946
Some Aspects of the Atmospheric Corrosion of	**Copper** in the Presence of Sodium Chloride	4	1093
Microscopy Electrochemical Behavior and Surface Morphologic Changes of	**Copper** Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ EQ	7	2369
A Reaction-Plane Model for the Open-Circuit Potential of Copper in Aerated	**Copper** Sulfate Solution	2	590
The Electrochemical Behavior of p-Type (100) GaAs in	**Copper** Sulfate Solution. Influence of Surface Conditions	9	3075
Electrodeposition of	**Copper** under Microgravity Conditions	6	1878
A Contactless Method for the Directed Formation of Submicrometer	**Copper** Wires	3	L45
Electrodeposition of Copper and	**Copper-Aluminum** Alloys from a Room-Temperature Chloroaluminate Molten Salt	9	3110
Aqueous Potential-pH Equilibria in	**Copper-Benzotriazole** Systems	3	L42
The Development of a Stable Citrate Electrolyte for the Electrodeposition of	**Copper-Nickel** Alloys	3	875
Electrical and Recombination Properties of	**Copper-Silicide** Precipitates in Silicon	11	3889
on of Layered Lithium Nickel Manganese Oxides Synthesized by a Novel Oxidative	**Coprecipitation** Method and Their Electrochemical Performance as Lithium Insertio	4	1113
ching of Silicon (110). Etch Characteristics and Compensation Methods for Convex	**Corners** Aqueous KOH Et	7	2499
lectrical Characterization of Thin SiO2 Films on Silicon Created by Anodic Oxygen	**Corona** Discharge Processing E	8	2937
Mechanisms of Film Growth Rate Enhancement in Anodic and Cathodic	**Corona-Discharge** Oxidation Processes	8	2944
Distribution on a Rotating Disk Electrode below the Mass-Transfer-Limited Current.	**Correction** for Finite Schmidt Number and Determination of Surface Charge Distrib	6	1940
of Li Electrodes and the Connection to Cycle Life of Practical Batteries The	**Correlation** Between Charge/Discharge Rates and Morphology, Surface Chemistry,	5	1421
Strength, Low Alloy Steel Cracking in Wet H2S	**Correlation** Between Acoustic Emission Signals and Hydrogen Permeation in High	6	1968
ssions from Porous Silicon. Evidence for Surface-Bound Emitters On the	**Correlation** of Aqueous and Nonaqueous In Situ and Ex Situ Photoluminescent Emi	9	3284
ii Area Graphites for Lithium-Ion Cells: The	**Correlation** of the First-Cycle Charge Loss with the Brunauer-Emmett-Teller Surfac	2	428
Characterization of Hydrogen Permeation Through Zinc-Nickel Alloys under	**Corroding** Conditions. Mathematical Model and Experimental Study	6	1907
A Laboratory Study of the Effect of Acetic Acid Vapor on Atmospheric Copper	**Corrosion**	12	4140
e Mechanism of Alloy	**Corrosion** and Consequences on Sealed Nickel-Metal Hydride Battery Performanc	3	860
Protection of Copper	**Corrosion** by an Ultrathin Two-Dimensional Polymer Film of Alkanethiol Monolayer	6	1856
The Effect of Crevice-Opening Dimension on the Stability of Crevice	**Corrosion** for Nickel in Sulfuric Acid	7	2276
The Effect of Electrolyte Properties on the Mechanism of Crevice	**Corrosion** in Pure Iron	6	1862
Effects on the Positive Electrode of the	**Corrosion** of AB5 Alloys in Nickel-Metal-Hydride Batteries	2	456
The Effects of Fluorine Passivation Using SF6 Plasma on the	**Corrosion** of Al(Cu 1%) at Grain Boundaries	3	1044
Detection of Localized	**Corrosion** of Aluminum Alloys Using Fluorescence Microscopy	5	1571
Atmospheric	**Corrosion** of Copper in the Presence of Acid Ammonium Sulfate Particles	3	946
Some Aspects of the Atmospheric	**Corrosion** of Copper in the Presence of Sodium Chloride	4	1093
Pitting	**Corrosion** of Metals. A Review of the Critical Factors	6	2186
The	**Corrosion** of Mo-Al Alloys in a H2/H2S/H2O Gas Mixture at 800-1000 C	7	2265
Wear-Accelerated	**Corrosion** of Passive Metals in Tribocorrosion Systems	3	750
Determination of Precursor Sites for Pitting	**Corrosion** of Polycrystalline Titanium by Using Different Techniques	6	2005
oelectrochemical Microscopy Elucidation of a Trigger Mechanism for Pitting	**Corrosion** of Stainless Steels Using Submicron Resolution Scanning Electrochemic	8	2664
The Role of Carbon Dioxide in the Atmospheric	**Corrosion** of Zinc. A Laboratory Study	1	39
The Influence of CO2 and NaCl on the Atmospheric	**Corrosion** of Zinc. A Laboratory Study	9	2993
Conversion Coating Monitored with Raman Spectroscopy	**Corrosion** Protection of Untreated AA-2024-T3 in Chloride Solution by a Chromate	7	2258
with Ultraviolet Light Irradiation Improvement of Pitting	**Corrosion** Resistance of Type 304 Stainless Steel by Modification of Passive Film	5	L79
toichiometry of Surface Oxides Formed during High Temperature Oxidation on the	**Corrosion** Resistance of Ferritic Chromium Steel The Effect of Nons	7	2236
ation Film on Fe-Ti Alloy Comparison of	**Corrosion** Resistances Between Fe2O3-TiO2 Artificial Passivation Film and Passiv	8	2818
Effect of the Lead Alloy Hardening Process in Electric Vehicle Storage Batteries on	**Corrosion** Resistance The	9	3183
Situ Atomic Force Microscopy Scratching	**Corrosion** Study of AA2024-T3 by Scanning Kelvin Probe Force Microscopy and In	7	2295
Analysis of Electrochemical Noise by Power Spectral Density Applied to	**Corrosion** Studies. Maximum Entropy Method or Fast Fourier Transform?	8	2780
Effects of CoSi2 on p+ Polysilicon Gates Fabricated by BF2+ Implantation into	**CoSi/Amorphous** Si Bilayers	10	3590
ss The Thermal Stability of	**CoSi2** on Polycrystalline Silicon: The Effect of Silicon Grain Size and Metal Thickne	4	1384
us Si Bilayers Effects of	**CoSi2** on p+ Polysilicon Gates Fabricated by BF2+ Implantation into CoSi/Amorpho	10	3590
Amorphous Nb/Fe-Oxide Ion-Storage Films for	**Counter** Electrode Applications in Electrochromic Devices	5	1607
Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film Modified Electrodes: Effect of pH and	**Counterion** A Neutron Reflectivity	5	1454
Thermodynamic and Kinetic Study of the Li/MnO2 Bi2O3 Electrochemical	**Couple**	3	L31
nd X-Ray Diffraction Studies Photocorrosion of	**Coupled** CdS/CdSe Photoelectrodes Coated with ZnO. Atomic Force Microscopy a	10	3535
Micro-Macroscopic	**Coupled** Modeling of Batteries and Fuel Cells. I. Model Development	10	3407
d Nickel-Metal Hydride Cells Micro-Macroscopic	**Coupled** Modeling of Batteries and Fuel Cells. II. Application to Nickel-Cadmium an	10	3418
Low Temperature Copper Etching Using an Inductively	**Coupled** Plasma with Ultraviolet Light Irradiation	3	L37
Fluorocarbon Polymer Deposited by Inductively	**Coupled** Plasma Oxide Etching	4	L67
Preparation of a-SiNx Thin Film with Low Hydrogen Content by Inductively	**Coupled** Plasma Enhanced Chemical Vapor Deposition	2	652
Etching of SiC Using Inductively	**Coupled** Plasma	10	3609
Cl2-Based Inductively	**Coupled** Plasma Etching of NiFe and Related Materials	11	4025
Control of Ion Energy in a Capacitively	**Coupled** Reactive Ion Etcher	12	4247
Tuning the Position of the Redox	**Couples** in Materials with NASICON Structure by Anionic Substitution	5	1518
nd Spectroscopic Characterization of Novel Amide Polymers Using Diphenylamine	**Coupling** Electro-oxidative Polymerization a	5	2648
Perforated	**Covers** for Propagating Pits	4	1101
on Sputtered	**Cr** and Reactively Sputtered CrNx Serving as Barrier Layers Against Copper Diffusi	12	4290
eramic Microstructure and Oxygen Permeability of SrCo(Fe,M)O3-delta (M = Cu or	**Cr) Perovskite Membranes** C	4	1363
Electrochemical Behavior of	**Cr2O3/Fe2O3** Artificial Passive Films Studied by In Situ XANES	3	791
A Novel Nanolithographic Concept Using	**Crack-Assisted** Patterning and Self-Alignment Technology	6	2120
ustic Emission Signals and Hydrogen Permeation in High Strength, Low Alloy Steel	**Cracking** in Wet H2S Correlation Between Acc	6	1968
Recombination Centers	**Created** by Ar+-Ion Implantation into SIMOX Substrates	5	1795
Electrical Characterization of Thin SiO2 Films on Silicon	**Created** by Anodic Oxygen Corona Discharge Processing	8	2937
es Highly Sensitive Microbiosensor for	**Creatinine** Based on the Combination of Inactive Polypyrrole with Polyion Complex	2	406
e of Recombination Losses in Bicomponent WO3/TiO2 Films Photosensitized with	**Cresyl** Violet and Thionine Decreas	11	3981
The Effect of Electrolyte Properties on the Mechanism of	**Crevice** Corrosion in Pure Iron	6	1862
The Effect of Crevice-Opening Dimension on the Stability of	**Crevice** Corrosion for Nickel in Sulfuric Acid	7	2276
ric Acid The Effect of	**Crevice-Opening** Dimension on the Stability of Crevice Corrosion for Nickel in Sulfu	7	2276
Pitting Corrosion of Metals. A Review of the	**Critical** Factors	6	2186
Metastable Pitting and the	**Critical** Pitting Temperature	8	2622

		Issue	Page
Sputtered Cr and Reactively Sputtered	**CrNx** Serving as Barrier Layers Against Copper Diffusion	12	4290
2 Surfaces Interface State Capture	**Cross** Section Measurements on Vacuum Annealed and Radiation Damaged Si:SiO	2	683
Analyses of Self-Humidification and Suppression of Gas	**Crossover** in Pt-Dispersed Polymer Electrolyte Membranes for Fuel Cells	4	1137
Effect of Current Distribution on Quartz	**Crystal** Microbalance Measurements	2	492
Electrochemically Precipitated Nickel Hydroxides Using an Electrochemical Quartz	**Crystal** Microbalance A Study on the Phase Transformation of	2	507
Confocal Laser Scanning Microscopy, Electrochemistry, and Quartz	**Crystal** Microbalance Studies of Leveling Effects of Thiourea on Copper Deposition	3	957
Sites Electrochemical Quartz	**Crystal** Microbalance Studies of Polypyrrole Growth on Self-Assembled Nucleation	5	1483
ric Acid Solution Containing Chloride Ion An In Situ Electrochemical Quartz	**Crystal** Microbalance Study of the Dissolution Process of a Gold Electrode in Perchl	5	1614
odification of the Lithium Metal Surface by Nonionic Polyether Surfactants: Quartz	**Crystal** Microbalance Studies M	7	2340
Quartz	**Crystal** Microbalance Investigation of Electrochemical Calcium Carbonate Scaling	7	2386
ution Processes in a Few Selected Electrolyte Solutions by Electrochemical Quartz	**Crystal** Microbalance A Study of Lithium Deposition-Dissol	8	2629
rchloric Acid Solutions Electrochemical Quartz	**Crystal** Microbalance Studies of Poly(ortho-toluidine) Films Exposed to Aqueous Pe	8	2640
Copper Deposition in the Presence of Polyethylene Glycol. I. Quartz	**Crystal** Microbalance Study	10	3472
The Effect of Processing Conditions on	**Crystal** Orientation and Structure in ZnS:Mn Thin Films	1	226
Characterization of Crystal Quality by	**Crystal** Originated Particle Delineation and the Impact on the Silicon Wafer Surface	1	275
on Wafer Surface Characterization of	**Crystal** Quality by Crystal Originated Particle Delineation and the Impact on the Silic	1	275
e in the Production of Lead-Acid Batteries	**Crystal** Structure of Tetrabasic Lead Sulfate (4PbO.PbSO4). An Intermediate Phas	2	528
Inner-Shell Electron Excitation Effect on the Structural Change in Amorphous and	**Crystalline** GaAs with Brilliant X-Ray Irradiation Using Synchrotron Radiation	9	3063
Macropore Formation in Highly Resistive p-Type	**Crystalline** Silicon	8	2958
Thin-Film	**Crystalline** SnO2-Lithium Electrodes	1	1
Charge-Discharge Properties of Composite Films of Polyaniline and	**Crystalline** V2O5 Particles	8	2707
amics and the Oxidation-Induced Stacking-Fault Ring in Czochralski-Grown Silicon	**Crystals** Point Defect Dyn	1	302
trochemical Mass Spectroscopy Applied to the Photocorrosion of p-InP(111) Single	**Crystals** A New Inlet System for Differential Elec	2	576
Potentiostatic Oxide Formation on Lead Selenide Single	**Crystals** in Alkaline Solutions	8	2806
Photoluminescence Studies of Cadmium Selenide	**Crystals** in Contact with Group III Trialkyl Derivatives	7	2475
Proton and Methanol Transport in Poly(perfluorosulfonate) Membranes Containing	**Cs+** and H+ Cations	11	3798
Passivation of	**Cu** by Sputter-Deposited Ta and Reactively Sputter-Deposited Ta-Nitride Layers	9	3170
In Situ Studies of	**Cu** Deposition in the Presence of Quaternary Ammonium Salts	4	1218
	Cu Dissolution from Si(111) into an SC-1 Process Solution	4	L60
Effect of TiN Microstructure on Diffusion Barrier Properties in	**Cu** Metallization	6	2164
Ceramic Microstructure and Oxygen Permeability of SrCo(Fe,M)O3-delta (M =	**Cu** or Cr) Perovskite Membranes	4	1363
hermal N2 Annealing on Passivation Capability of Sputtered Ta(-N) Layers Against	**Cu** Oxidation Effects of T	11	4029
Atomic Layer Epitaxy of Copper. Growth and Selectivity in the	**Cu(II)-2,2,6,6-tetramethyl-3,5-heptanedionate/H2** Process	8	2926
equent Thermal Processing A 10%	**Cu(In,Ga)Se2** Based Photovoltaic Structure Formed by Electrodeposition and Subs	10	3613
Prediction of Li Intercalation and Battery Voltages in Layered vs.	**Cubic** LixCoO2	7	2424
14.1%	**CuIn1-xGaxSe2-Based** Photovoltaic Cells from Electrodeposited Precursors	10	3435
d CO and CO2 Gas Sensitivity of the CuO/ZnO Heterocontact Made by Quenched	**CuO** Ceramics Enhance	2	632
Enhanced CO and CO2 Gas Sensitivity of the	**CuO/ZnO** Heterocontact Made by Quenched CuO Ceramics	2	632
In Situ Characterization of Methylsilsesquioxane	**Curing**	11	4007
Rotating Hemispherical Electrode. Accurate Expressions for the Limiting	**Current** and the Convective Warburg Impedance	12	4189
	Current Change Method of Reducing Gas Sensing Using ZnO Varistors	8	2920
Current Distribution on a Rotating Disk Electrode below the Mass-Transfer-Limited	**Current**. Correction for Finite Schmidt Number and Determination of Surface Charg	6	1940
Photoelectrochemical Reduction of CO2 at High	**Current** Densities at p-InP Electrodes	5	L82
Lowering of Leakage	**Current** Density of (Ba,Sr)TiO3 Thin Films by Pulse Injection Deposition	11	3884
alysis of Metal Hydride Electrodes. Studies on Equilibrium Potential and Exchange	**Current** Density Theoretical An	12	4082
Effect of	**Current** Distribution on Quartz Crystal Microbalance Measurements	2	492
r Finite Schmidt Number and Determination of Surface Charge Distribution	**Current** Distribution on a Rotating Disk Electrode below the Mass-Transfer-Limited	6	1940
Secondary	**Current** Distribution in a Curvilinear Hull Cell	9	3042
	Current Distribution at Porous Electrodes-Solid Oxide Electrolyte Interface	9	3130
The Effect of Several Benzyl Alcohols and Electron Bridging Anions on the	**Current** Efficiency for Deposition of Cadmium	3	801
n	**Current** Efficiency of an Ion-Selective Membrane: Effect of Fixed Charge Distributio	4	1088
	Current Evolution of Electrodeposited Copper Bumps with Photoresist Angle	3	840
Characterization of a 100 cm2 Class Molten Carbonate Fuel Cell with	**Current** Interruption	8	2747
In Situ Characterization of the p-Si/NH4F Interface during Dissolution in the	**Current** Oscillations Regime	2	498
Anomalous	**Current** Rise and Electrochemical Reduction in Fe2O3-TiO2 Ceramics	5	1592
a Titanium Modeling of Anodic	**Current** Transients Resulting from Oxide Rupture of Plastically Strained Beta + Alph	6	1829
pO2-Dependent Nonohmic Current-Voltage Characteristics and	**Current-Induced** Redox Behavior of Junctioned SrTiO3	4	1165
d SrTiO3 pO2-Dependent Nonohmic	**Current-Voltage** Characteristics and Current-Induced Redox Behavior of Junctione	4	1165
Conduction Mechanism and Temperature-Dependent	**Current-Voltage** in (Ba, Sr)TiO3 Thin Films	8	2853
ons Profiles and Performance	**Curves** in a Parallel-Plate Reactor for the Electrochemical Fluorination of Hydrocarb	5	1578
Secondary Current Distribution in a	**Curvilinear** Hull Cell	9	3042
Surface Studies of	**CuxCo3-xO4** Electrodes for the Electrocatalysis of Oxygen Evolution	7	2320
The Mechanism of the Oxidative Dissolution of Colloidal Gold in	**Cyanide** Media	2	408
ology, Surface Chemistry, and Performance of Li Electrodes and the Connection to	**Cycle** Life of Practical Batteries The Correlation Between Charge/Discharge	5	1421
	Cyclic Voltammetry of Pulsed Laser Deposited LixMn2O4 Thin Films	9	2975
Factors Affecting the Stabilization of Mn Spinel Capacity upon Storing and	**Cycling** at High Temperatures	8	2726
idence for Direct Gamma-NiOOH Beta-Ni(OH)2 Transitions during Electrochemical	**Cycling** of the Nickel Hydroxide Electrode Ev	5	1434
Analysis of the Superior Water Blocking Ability of Electron	**Cyclotron** Resonance-Plasma SiO2 Film	4	1338
nt Defect Supersaturation on the Formation of Grown-In Oxide Precipitate Nuclei in	**CZ-Si** Influence of Residual Poi	5	L75
Point Defect Dynamics and the Oxidation-Induced Stacking-Fault Ring in	**Czochralski-Grown** Silicon Crystals	1	302
The Impact of Graphite Furnace Parts on Radial Impurity Distribution in	**Czochralski-Grown** Single-Crystal Silicon	2	621
Pits Observed on SiO2 Thermally Grown at High Temperatures on (111)-Oriented	**Czochralski-Silicon** Surface	6	2143

— D —

anometallic Chemistry. Electro-oxidation of Methanol, Ethanol, 1,2-Ethanediol, and	**D-Glucose** over a Pt-Ruads Surface Optimized for Oxidation of Methanol D	12	4182
High Density Plasma	**Damage** in InGaP/GaAs and AlGaAs/GaAs High Electron Mobility Transistors	11	4036
e State Capture Cross Section Measurements on Vacuum Annealed and Radiation	**Damaged** Si:SiO2 Surfaces Interfac	2	683
Influence of Overpolish Time on the Performance of W	**Damascene** Technology	4	1285
iation Parameters of Electrolytes at High Temperatures from Specific Conductance	**Data** Estimation of Dissoc	12	4107
Agglomerate Model for	**DC** and AC Response of Phosphoric Acid Fuel Cell Cathode	1	45
Microstructural Changes in a Polycrystalline, Semiconducting Oxide under	**DC** Electric Fields	12	4243
Pd-Loaded Carbon Felt as the Cathode for Selective	**Dechlorination** of 2,4-Dichlorophenoxyacetic Acid in Aqueous Solution	11	3844
Synthesis of LiCoO2 by	**Decomposition** and Intercalation of Hydroxides	3	887
Reaction Mechanism for the Thermal	**Decomposition** of BCl3/H2 Gas Mixtures	9	3203
m SiC Whiskers	**Decomposition** of Trichloroethylene by Microwave-Induced Plasma Generated fro	1	229
Mechanism of Luminance	**Decrease** in BaMgAl10O17:Eu2+ Phosphor by Oxidation	11	3903
ed with Cresyl Violet and Thionine	**Decrease** of Recombination Losses in Bicomponent WO3/TiO2 Films Photosensitiz	11	3981
Shape Evolution of Electrodeposited Bumps with	**Deep** Cavity	9	3007
Effects of Stoichiometry and Te Concentration on the	**Deep Levels** in Liquid-Phase Epitaxially Grown n-Type Al0.3Ga0.7As	8	2905
Method for Measuring	**Deep Levels** in Thin Silicon-on-Insulator Layer Without Any Interface Effects	10	3581
Dry Etching of	**Deep** Si Trenches for Released Resonators in a Cl2 Plasma	5	1767
arasitic Resistance Considerations of Using Elevated Source/Drain Technology for	**Deep** Submicron Metal Oxide Semiconductor Field Effect Transistors P	6	2131
A New Voltage Transient Technique for	**Deep-Level** Studies in Depletion-Mode Field-Effect Transistors	9	3258
Limitation of HF-Based Chemistry for	**Deep-Submicron** Contact Hole Cleaning on Silicides	9	3240
The Effects of Post Chemical Mechanical Planarization Buffing on	**Defect** Density of Tungsten and Oxide Wafers	12	4240
wn Silicon Crystals Point	**Defect** Dynamics and the Oxidation-Induced Stacking-Fault Ring in Czochralski-Gro	1	302
Experimental Methods for Investigating the	**Defect** Properties of SiO2 in Metal Oxide Semiconductor Transistors	10	3638

		Issue	Page
Z-Si	Influence of Residual Point **Defect** Supersaturation on the Formation of Grown-In Oxide Precipitate Nuclei in C	5	L75
n of Polypyrrole Nanostructures on Highly Ordered Pyrolytic Graphite Step and Pit	**Defects** Template Electropolymerizatio	10	3320
Mechanistic Aspects of Phenol Electrochemical	**Degradation** by Oxidation on a Ta/PbO2 Anode	10	3427
Reduction of Electron-Beam Induced	**Degradation** by Rare Earth Doping in Y3(Al,Ga)5O12:Tb Phosphors	1	270
Fenton, and Peroxi-Coagulation Processes	**Degradation** of 4-Chlorophenol by Anodic Oxidation, Electro-Fenton, Photoelectro-	3	789
ration Processes Experimental Study of the	**Degradation** of Mechanical Strength of Silicon Wafers Caused by Large Scale Integ	9	3180
of Water: Theoretical Analysis and Methods Monitoring	**Degradation** of Single and Multilayer Organic Coatings. I. Absorption and Transport	11	3830
Characterization of Crystal Quality by Crystal Originated Particle	**Delineation** and the Impact on the Silicon Wafer Surface	1	275
Thermodynamic Stability of Chemically	**Delithiated** Li(LixMn2-x)O4	2	569
Morphology Modification and	**Delithiation** Mechanisms of LiMn2O4 and Li2MnO3 by Acid Digestion	1	16
Super	**Dense** LiC2 as a High Capacity Li Intercalation Anode	7	2377
Vapor Infiltration with Radio-Frequency Heating. II. Strategies to Achieve Complete	**Densification** A Two-Dimensional Model of Chemical	10	3569
and Single-Layer Oxide Electrolytes Comparison of Power	**Densities** and Chemical Potential Variation in Solid Oxide Fuel Cells with Multilayer	1	99
Photoelectrochemical Reduction of CO2 at High Current	**Densities** at p-InP Electrodes	5	L82
f Metal Hydride Electrodes. Studies on Equilibrium Potential and Exchange Current	**Density** Theoretical Analysis o	12	4082
ansform? Analysis of Electrochemical Noise by Power Spectral	**Density** Applied to Corrosion Studies. Maximum Entropy Method or Fast Fourier Tr	8	2780
High Temperature Barrier Electrode Technology for High	**Density** Ferroelectric Memories with Stacked Capacitor Structure	7	2563
Determination of the Trap	**Density** in Amorphous Silicon by Quasi-static Capacitance-Voltage Measurements	8	1786
Lowering of Leakage Current	**Density** of (Ba,Sr)TiO3 Thin Films by Pulse Injection Deposition	11	3884
The Effects of Post Chemical Mechanical Planarization Buffing on Defect	**Density** of Tungsten and Oxide Wafers	12	4240
Transistors High	**Density** Plasma Damage in InGaP/GaAs and AlGaAs/GaAs High Electron Mobility	11	4036
arbon and Iodofluorocarbon Chemistries for a High Aspect Ratio Via Etch in a High	**Density** Plasma Etch Tool Use of Novel Hydrofluoroc	12	4305
with Microscopy Techniques	**Denuded** Zone Thickness from Surface Photovoltage Measurements. Comparison	8	1632
Temperature	**Dependence** of Carrier Recombination Lifetime in Si Wafers	9	3265
Tungsten Oxide Films Deposition Temperature	**Dependence** of Optical Gap and Coloration Efficiency Spectrum in Electrochromic	5	1729
Temperature	**Dependence** of the Oxygen Evolution Reaction on the Pb/PbO2 Electrode	1	70
adio-Frequency Magnetron Sputtering Temperature	**Dependence** of the Electrical Properties of SrBi2Ta2O9 Thin Films Deposited by R	4	1330
emiconductor Devices Nitrogen Concentration	**Dependence** on Boron Diffusion in Thin Silicon Oxynitrides Used for Metal-Oxide-S	2	689
A New Voltage Transient Technique for Deep-Level Studies in	**Depletion-Mode** Field-Effect Transistors	9	3258
ing Polymer Composite Cathodes. I. Voltammetric Study of the Polymerization and	**Depolymerization** of 2,5-Dimercapto-1,3,4-thiadiazole in Acetonitrile Organ	6	1893
Iron Passivity in Borate Buffer. Formation of a	**Deposit** Layer and Its Influence on the Semiconducting Properties	2	609
Thin-Film Properties and Barrier Effectiveness of Chemically Vapor	**Deposited** Amorphous WSix Film	12	4206
Radio-Frequency Reactively Sputtered VOx Thin Films	**Deposited** at Different Oxygen Flows	2	706
Irregular Surface and Porous Structure of SiO2 Films	**Deposited** at Low Temperature and Low Pressure	7	2569
3 Effects of Substrate on the Growth Characteristics of Silicon Oxide Films	**Deposited** by Atmospheric Pressure Chemical Vapor Deposition Using Si(OC2H5)4	8	2847
Fluorocarbon Polymer	**Deposited** by Inductively Coupled Plasma Oxide Etching	4	L67
Temperature Dependence of the Electrical Properties of SrBi2Ta2O9 Thin Films	**Deposited** by Radio-Frequency Magnetron Sputtering	4	1330
Electron Field Emission from Chemical Vapor	**Deposited** Diamond Films	7	2572
Hydrogen Evolution on Thin-Film	**Deposited** Electrodes Prepared by a Plasma-Based Technique	9	3150
Properties of a-SiOx:H Thin Films	**Deposited** from Hydrogen Silsesquioxane Resins	8	2861
Comparison of Oxidation Rates for a-Si1-xCx:H Films	**Deposited** from Pulsed and Continuous Wave RF Plasmas	9	3271
Cyclic Voltammetry of Pulsed Laser	**Deposited** LixMn2O4 Thin Films	9	2975
Electrochemical Promotion of Ethylene Oxidation on Pt Catalyst Films	**Deposited** on CeO2	4	1202
Electrochemical Promotion of Pt Catalyst Electrodes	**Deposited** on Na3Zr2Si2PO12 during Ethylene Oxidation	5	1469
Work Function and Catalytic Activity Measurements of an IrO2 Film	**Deposited** on YSZ Subjected to In Situ Electrochemical Promotion	3	905
A Study of the Adhesion of Electrophoretically	**Deposited** Phosphors	4	1245
Chemically	**Deposited** Sb2S3 and Sb2S3-CuS Thin Films	6	2113
dynamic Study, Composition, and Microstructure of Low-Pressure Chemical Vapor	**Deposited** Silicon Dioxide Films Grown from TEOS/N2O Mixtures Thermo	4	1310
Ethanol-Addition-Enhanced, Chemical Vapor	**Deposited** Tantalum Oxide Films from Ta(OC2H5)5 and Oxygen Precursors	9	3247
The Effect of Low-Pressure and Plasma-Enhanced Chemical Vapor	**Deposited** Tetraethylorthosilicate Oxide Film on a Boron Implant Profile	5	1677
Influence of Deposition Parameters on the Texture of Chemical Vapor	**Deposited** Tungsten Films by a WF6/H2/Ar Gas Source	9	3235
Low Pressure Chemically Vapor	**Deposited** WO3 Thin Films for Integrated Gas Sensor Applications	4	1346
Dielectric Properties of Radio Frequency Magnetron Sputter	**Deposited** Zirconium Titanate-Based Thin Films	1	358
A New Process for	**Depositing** Tungsten Nitride Thin Films	2	L21
of Alkylsilanes and Alkylcarbosilanes in Atomic Hydrogen-Induced Chemical Vapor	**Deposition** Reactivity	3	1060
d Nucleation and Growth of Diamond Films by Microwave Plasma Chemical Vapor	**Deposition** Structural Investigation of the Bias-Enhance	6	2095
of O2 Addition on the Deposition of Pt Thin Films by Metallorganic Chemical Vapor	**Deposition** Effect	3	1066
Preparation of Indium Hydroxy Sulfide Inx(OH)ySz Thin Films by Chemical Bath	**Deposition**	8	2775
Silicon Films Prepared at Low Temperature by Plasma-Enhanced Chemical Vapor	**Deposition** Relationship Between Structural and Optical Properties in Polycr	10	3615
nd Quartz Crystal Microbalance Studies of Leveling Effects of Thiourea on Copper	**Deposition** Confocal Laser Scanning Microscopy, Electrochemistry, a	3	957
ion of Ag/Y2O3-Stabilized ZrO2 Composite Films by Metallorganic Chemical Vapor	**Deposition** Fabricat	1	L4
Stable Vanadium Oxide Cathodes Prepared by Plasma-Enhanced Chemical Vapor	**Deposition** Highly	6	1889
e Effects of Gas-Phase Additives NH3, NO, and NO2 on SiH4/O2 Chemical Vapor	**Deposition** Th	3	1070
ectra for Quantitative Fourier Transform Infrared Spectroscopy of Chemical Vapor	**Deposition** Calculation of Gas Sp	9	3212
Low Hydrogen Content by Inductively Coupled Plasma Enhanced Chemical Vapor	**Deposition** Preparation of a-SiNx Thin Film with	2	652
An Analysis of the Binder Formation in Electrophoretic	**Deposition**	4	1253
Formation of Catalytic Pd on ZnO Thin Films for Electroless Metal	**Deposition**	10	3378
rphology in Selective Epitaxial TiSi2 Growth by Plasma-Enhanced Chemical Vapor	**Deposition** Effect of Fluorine on Surface Mo	5	1640
Film Formation from Tetraethoxysilane in Atomic Oxygen-Induced Chemical Vapor	**Deposition** Mechanism of Amorphous Silica	8	2866
for Solar Cell Application Obtained with 55 kHz Plasma Enhanced Chemical Vapor	**Deposition** Amorphous Hydrogenated Silicon Films	7	2508
Lowering of Leakage Current Density of (Ba,Sr)TiO3 Thin Films by Pulse Injection	**Deposition**	11	3884
W-Clad Layer Formation on Heavily Doped p+-Si by Selective Chemical Vapor	**Deposition**	12	4203
ilm Deposition from H2-He-SiH4 Using Remote Plasma Enhanced Chemical Vapor	**Deposition** Microcrystalline Silicon F	8	2900
Ammonia and Nitrous Oxide	**Deposition** and Chemical Composition of Silicon Oxynitride from Methylsilazane in	6	1902
The Effect of Mass Transport on Li	**Deposition** and Dissolution	9	3094
Titanium Silicide Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor	**Deposition** and Film Characterization Selective	11	3941
Alumina Coatings Applied via Combustion Chemical Vapor	**Deposition** and Their Effects on the Oxidation of a Ni-Base Chromia Former	11	3986
mation of Titanium Nitride Layers by Rapid Thermal Low Pressure Chemical Vapor	**Deposition** from TiCl4-NH3-H2 Kinetics of the For	5	1672
Incorporation of Cadmium Sulfide into Nanoporous Silicon by Sequential Chemical	**Deposition** from Solution	7	2448
Effect of Chlorine Species on Diamond	**Deposition** from Plasma Jets with Chlorobenzenes as Carbon Sources	8	2895
position Microcrystalline Silicon Film	**Deposition** from H2-He-SiH4 Using Remote Plasma Enhanced Chemical Vapor De	8	2900
In Situ Studies of Cu	**Deposition** in the Presence of Quaternary Ammonium Salts	4	1218
Study Copper	**Deposition** in the Presence of Polyethylene Glycol. I. Quartz Crystal Microbalance	10	3472
Spectroscopy Copper	**Deposition** in the Presence of Polyethylene Glycol. II. Electrochemical Impedance	10	3477
Investigation of Particle Generation during the Low-Pressure Chemical Vapor	**Deposition** of Borophosphosilicate Glass Films	6	2051
Growth Kinetics of Chemical Vapor	**Deposition** of Beta-SiC from (CH3)2SiCl2/Ar	7	2516
Toward a Unified Reaction Mechanism for Chemical Vapor	**Deposition** of Copper	1	347
A New Liquid Precursor with Improved Thermal Stability for Chemical Vapor	**Deposition** of Copper	1	362
Electro-oxidative	**Deposition** of C60 via Scanning Electrochemical Microscope	2	503
eriments with a Lumped Parameter Model of the Plasma Assisted Chemical Vapor	**Deposition** of Copper Comparison of Exp	2	694
Several Benzyl Alcohols and Electron Bridging Anions on the Current Efficiency for	**Deposition** of Cadmium The Effect of	3	801
The Role of Gas-Phase Reactions during Chemical Vapor	**Deposition** of Copper from (hfac)Cu(tmvs)	12	4226
Modeling Plasma-Assisted	**Deposition** of Diamond-Like Carbon Films	12	4332
Effect of O2 Addition on the	**Deposition** of Pt Thin Films by Metallorganic Chemical Vapor Deposition	3	1086
The Kinetics of the Low-Pressure Chemical Vapor	**Deposition** of Polycrystalline Silicon from Silane	4	1318
Electrochemical	**Deposition** of Prussian Blue from a Single Ferricyanide Solution	7	2231
d D-Glucose over a Pt-Ruads Surface Optimized for Oxidation of Methanol	**Deposition** of Ru Adatoms on Pt Using Organometallic Chemistry. Electro-oxidation	12	4182
A Kinetic Study of the Chemical Vapor	**Deposition** of Silicon Carbide from Dichlorodimethylsilane Precursors	4	1277

	Issue	Page
Deposition of Silica Films Using Electrochemical Procedures	6	1812
Steady-State Multiplicity Phenomena in the **Deposition** of Silicon Carbide	11	3908
Remote Plasma-Enhanced Chemical Vapor **Deposition** of SiO2 Using Ar/N2O and SiH4	11	3957
The Effects of Processing Parameters in the Low-Temperature Chemical Vapor **Deposition** of Titanium Nitride from Tetraiodotitanium	2	676
Effect of the Gas-Phase Reaction in Metallorganic Chemical Vapor **Deposition** of TiN from Tetrakis(dimethylamido)titanium	7	2453
Chemical Reactions in Plasma-Assisted Chemical Vapor **Deposition** of Titanium	7	2558
Kinetics of Vapor-Phase Electrolytic **Deposition** of Yttria-Stabilized Zirconia Thin Films	12	4277
Electrochemical Impedance Spectroscopy of Copper **Deposition** on Silicon from Dilute Hydrofluoric Acid Solutions	1	352
A Comparative Electrochemical Study of Copper **Deposition** onto Silicon from Dilute and Buffered Hydrofluoric Acids	1	241
s by a WF6/H2/Ar Gas Source Influence of **Deposition** Parameters on the Texture of Chemical Vapor Deposited Tungsten Film	9	3235
Design of Injection Feed Multiwafer Low-Pressure Chemical Vapor **Deposition** Reactors	7	2494
Chemical Vapor **Deposition** Stability Diagram for the BiI3-O2 System	12	4234
Flat Panel Display Applications In Situ Pulsed **Deposition** Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electroluminescent	12	4271
dTe Thin Films Formed by Electrochemical Atomic Layer Epitaxy in an Automated **Deposition** System Optimization of the Growth of C	10	3594
ctrum in Electrochromic Tungsten Oxide Films **Deposition** Temperature Dependence of Optical Gap and Coloration Efficiency Spe	5	1729
SiOF Film **Deposition** Using FSi(OC2H5)3 Gas in a Helicon Plasma Source	7	2576
eristics of Silicon Oxide Films Deposited by Atmospheric Pressure Chemical Vapor **Deposition** Using Si(OC2H5)4 and O3 Effects of Substrate on the Growth C	8	2847
Film Characterization Selective Titanium Silicide **Deposition** Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor Deposition and	11	3941
Very Low Pressure Selective Aluminum Chemical Vapor **Deposition** Using Dimethylaluminum Hydride Without H2 Carrier Gas	12	4327
Sequential Observation of Electroless Copper **Deposition** via Noncontact Atomic Force Microscopy	9	3301
rochemical Quartz Crystal Microbalance A Study of Lithium **Deposition-Dissolution** Processes in a Few Selected Electrolyte Solutions by Elect	8	2629
assing Through a Pd Sheet Electrode Effect of Pd Black **Deposits** on Successive Hydrogenation of 4-Methylstyrene with Active Hydrogen P	1	138
Controlled Anodic Oxidation for High Precision Etch **Depth** in AlGaAs III-V Semiconductor Structures	3	1076
Effects of Annealing on Oxygen **Depth** Profiles and Chemical Etching Rates of Thermally Grown Silicon Oxides	4	1306
inescence Studies of Cadmium Selenide Crystals in Contact with Group III Trialkyl **Derivatives** Photolum	7	2475
Mass and Infrared Spectroscopic Properties and Humidity Sensitivity of Polyaniline **Derivatives/Polyvinyl** Alcohol Composites Thermogravimetric/	10	3351
Design and Simulation of a Reverse Iontophoretic Glucose Monitoring Device	12	4119
tors **Design** of Injection Feed Multiwafer Low-Pressure Chemical Vapor Deposition Reac	7	2494
Lithium Insertion into Disordered Carbons Prepared from **Designed** Organic Polymers	9	3123
Designing Reduced-Order Models for Rapid Thermal Processing Systems	11	3974
xide Sensors for **Detecting** Sub-ppm NO2 Using Photochemically Produced Amorphous Tungsten O	12	4219
SnO2/Bi2O3: A Suitable System for Selective Carbon Monoxide **Detection**	3	1039
Direct Electrochemical **Detection** of C60 in Solution by Steady-State Voltammetry at Microelectrodes	4	1227
Clay-Enhanced Electrochemiluminescence and Its Application in the **Detection** of Glucose	8	2654
py **Detection** of Localized Corrosion of Aluminum Alloys Using Fluorescence Microsco	5	1571
Lifetime Measurements **Detection** of Metallic Contaminants on Silicon by Surface Sensitive Minority Carrier	7	2602
aths by Factor Analysis of Visible Absorption Spectra **Determination** of Chemical Species and Their Composition in Ni-Mo Alloy Plating B	2	523
tion of Impedance, Potentiostatic, and Galvanostatic Methods to Ag1.92Te **Determination** of Chemical Diffusion Coefficients of Mixed Ionic-Electronic Conduct	6	2179
Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydrogen-Storage Alloys **Determination** of Internal Cell Pressures in Sealed Ni-MH Rechargeable Batteries	10	3387
Solid-State Reaction Kinetics of LaCrO3 from the Oxides and **Determination** of La3+ Diffusion Coefficient	6	2090
Using Different Techniques **Determination** of Precursor Sites for Pitting Corrosion of Polycrystalline Titanium by	6	2005
elow the Mass-Transfer-Limited Current. Correction for Finite Schmidt Number and **Determination** of Surface Charge Distribution Current Distribution on a Rota	6	1940
System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. I. **Determination** of the Predominant Reaction Process Electrochemical Oxida	3	920
e-Voltage Measurements **Determination** of the Trap Density in Amorphous Silicon by Quasi-static Capacitanc	5	1786
In Situ **Determination** of the Composition of Surface Films Formed on Fe-Cr Alloys	6	1922
aNi5 and MmNi3.6Co0.8Mn0.4Al0.3 Using Microelectrodes **Determination** of the Diffusion Coefficient and Phase-Transfer Rate Parameter in L	11	3740
Titanium Nitride on Brass Electrochemical **Determination** of the Porosity of Single and Duplex PVD Coatings of Titanium and	12	4173
High-Temperature Diffusion of Hydrogen and **Deuterium** in Titanium and Ti3Al	7	2471
Micro-Macroscopic Coupled Modeling of Batteries and Fuel Cells. I. Model **Development**	10	3407
kel Alloys The **Development** of a Stable Citrate Electrolyte for the Electrodeposition of Copper-Nic	3	875
Electrosynthesis of Sodium Hydrosulfite. I. **Development** of an Online Process Control Monitor	12	4052
Design and Simulation of a Reverse Iontophoretic Glucose Monitoring **Device**	12	4119
Noise as a Diagnostic Tool for Semiconductor Material and **Device** Characterization	6	2058
Highly Purified Silane Gas for Advanced Silicon Semiconductor **Devices**	10	3560
b/Fe-Oxide Ion-Storage Films for Counter Electrode Applications in Electrochromic **Devices** Amorphous N	5	1607
lypyrrole/SiO2 Composite Film and Its Application to Organic Electroluminescence **Devices** Electrochemical Formation of Po	4	1126
on Boron Diffusion in Thin Silicon Oxynitrides Used for Metal-Oxide-Semiconductor **Devices** Nitrogen Concentration Dependence	2	689
Ion Potential Diagrams for Electrochromic **Devices**	12	4212
Surface State Generation of Mo Gate Metal Oxide Semiconductor **Devices** Caused by Mo Penetration into Gate Oxide	4	1297
Time-Resolved Mono-anion, **Di-anion**, and Solvent Transfers into a Poly(vinylferrocene)-Modified Electrode	2	L24
Mass Transport in Gas-Diffusion Electrodes: A **Diagnostic** Tool for Fuel-Cell Cathodes	1	5
Noise as a **Diagnostic** Tool for Semiconductor Material and Device Characterization	6	2058
Boron in Polycrystalline SixGe1-x Films. Phase **Diagram** and Solid Solubility	7	2530
Chemical Vapor Deposition Stability **Diagram** for the BiI3-O2 System	12	4234
Ion Potential **Diagrams** for Electrochromic Devices	12	4212
Effect of Chlorine Species on **Diamond** Deposition from Plasma Jets with Chlorobenzenes as Carbon Sources	8	2895
Electrochemical Behavior of Highly Conductive Boron-Doped **Diamond** Electrodes for Oxygen Reduction in Alkaline Solution	6	1870
Structural, Spectroscopic, and Electrochemical Characterization of Boron-Doped **Diamond** Films from Different Provenances	5	L85
Structural Investigation of the Bias-Enhanced Nucleation and Growth of **Diamond** Films by Microwave Plasma Chemical Vapor Deposition	6	2095
Electron Field Emission from Chemical Vapor Deposited **Diamond** Films	7	2572
Water Electrolysis Using **Diamond** Thin-Film Electrodes	7	2358
Growth and Characterization of Eu:Y2O3 Thin-Film Phosphors on Silicon and **Diamond-Coated** Silicon Substrates	10	3456
Modeling Plasma-Assisted Deposition of **Diamond-Like** Carbon Films	12	4332
Novel Low k Dielectrics Based on **Diamondlike** Carbon Materials	5	1649
A Kinetic Study of the Chemical Vapor Deposition of Silicon Carbide from **Dichlorodimethylsilane** Precursors	4	1277
Pitting in Aluminum Thin Films. Supersaturation and Effects of **Dichromate** Ions	8	2834
Surface and Interface Roughness of Ultrathin Nitric Oxide Oxynitride Gate **Dielectric**	1	L13
Differentiation Between Electric Breakdowns and **Dielectric** Breakdown in Thin Silicon Oxides	3	1033
Semiconductor Applications Characterization of High Quality Nitrided Gate **Dielectric** Films Manufactured in Reduced Pressure Furnace for Ultralarge Scale In	5	1679
Impact of Floating Gate Dopant Concentration and Interpoly **Dielectric** Processing on Tunnel Dielectric Reliability	4	1351
itanate-Based Thin Films **Dielectric** Properties of Radio Frequency Magnetron Sputter Deposited Zirconium T	1	358
Floating Gate Dopant Concentration and Interpoly Dielectric Processing on Tunnel **Dielectric** Reliability Impact of	4	1351
Materials Issues with Thin Film Hydrogen Silsesquioxane Low K **Dielectrics**	11	4019
Novel Low k **Dielectrics** Based on Diamondlike Carbon Materials	5	1649
Investigation of Boron Penetration Through Thin Gate **Dielectrics** Including Role of Nitrogen and Fluorine	7	2545
InP(111) Single Crystals A New Inlet System for **Differential** Electrochemical Mass Spectroscopy Applied to the Photocorrosion of p-	2	576
ic Li-Ion Batteries **Differential** Scanning Calorimetry Study of the Reactivity of Carbon Anodes in Plast	2	472
on Oxides **Differentiation** Between Electric Breakdowns and Dielectric Breakdown in Thin Silic	3	1033
An Electrochemical Cell for Simultaneous In Situ X-Ray **Diffraction** and Optical Measurements	8	2759
dS/CdSe Photoelectrodes Coated with ZnO. Atomic Force Microscopy and X-Ray **Diffraction** Studies Photocorrosion of Coupled C	10	3535
f LixMn2O4 in Lithium-Ion Battery Cells Measured In Situ Using Synchrotron X-Ray **Diffraction** Techniques Structural Evolution o	2	466
Barrier Properties of Very Thin Ta and TaN Layers Against Copper **Diffusion**	7	2538
ttered Cr and Reactively Sputtered CrNx Serving as Barrier Layers Against Copper **Diffusion** Spu	12	4290
Application of Hydrogen **Diffusion** Anodes in Electrolytic Processes Using Methanol-Water Mixtures	5	1502
Effect of TiN Microstructure on **Diffusion** Barrier Properties in Cu Metallization	6	2164
Diffusion Coefficients of Cerium and Gadolinium in Molten LiCl-KCl	1	84
olid-State Reaction Kinetics of LaCrO3 from the Oxides and Determination of La3+ **Diffusion** Coefficient S	6	2090
ostatic, and Galvanostatic Methods to Ag1.92Te Determination of Chemical **Diffusion** Coefficients of Mixed Ionic-Electronic Conductors with Arbitrary Electronic	6	2179

		Issue	Page
0.8Mn0.4Al0.3 Using Microelectrodes	Determination of the **Diffusion** Coefficient and Phase-Transfer Rate Parameter in LaNi5 and MmNi3.6Co	11	3740
Boron	**Diffusion** in Compressively Stressed Float Zone-Silicon Induced by Si3N4 Films	1	258
Proton	**Diffusion** in Nickel Hydroxide. Prediction of Active Material Utilization	1	29
Boron	**Diffusion** in Silicon Oxides and Oxynitrides	8	2868
Oxygen	**Diffusion** in Single-Crystal In2O3 and Tin-Doped In2O3	8	2910
Nitrogen Concentration Dependence on Boron	**Diffusion** in Thin Silicon Oxynitrides Used for Metal-Oxide-Semiconductor Devices	2	689
Enhanced	**Diffusion** of Boron in Si during Doping from Borosilicate Glass	7	2534
High-Temperature	**Diffusion** of Hydrogen and Deuterium in Titanium and Ti3Al	7	2471
Chemical	**Diffusion** Through Grain Boundaries in Mixed Conductors	5	1762
bility Analysis of Unsteady Galvanostatic Electrodeposition in the Two-Dimensional	**Diffusion-Limited** Regime Linear Sta	6	2016
ology Modification and Delithiation Mechanisms of LiMn2O4 and Li2MnO3 by Acid	**Digestion** Morph	1	16
A Comparative Electrochemical Study of Copper Deposition onto Silicon from	**Dilute** and Buffered Hydrofluoric Acids	1	241
emoval by Single-Wafer Spin Cleaning with Repetitive Use of Ozonized Water and	**Dilute** HF Contamination R	9	3278
Electrochemical Impedance Spectroscopy of Copper Deposition on Silicon from	**Dilute** Hydrofluoric Acid Solutions	1	352
Optimization of Polysilicon Encapsulated Local Oxidation of Silicon. Cavity	**Dimension** Effects on Mechanical Stress and Gate Oxide Integrity	5	1653
The Effect of Crevice-Opening	**Dimension** on the Stability of Crevice Corrosion for Nickel in Sulfuric Acid	7	2276
m-Ion Rechargeable Cells Optimization of the	**Dimensions** of Vapor-Grown Carbon Fiber for Use as Negative Electrodes in Lithiu	1	210
eakdown of Carbon Steel in Organic Solvent Mixtures of Propylene Carbonate and	**Dimethoxyethane** Passivity and Br	7	2396
Effect of Additives on the Viscosity of Liquid-Phase	**Dimethylaluminum** Hydride	2	L23
Very Low Pressure Selective Aluminum Chemical Vapor Deposition Using	**Dimethylaluminum** Hydride Without H2 Carrier Gas	12	4327
Optimized	**Diode** Analysis of Electrical Silicon Substrate Properties	6	2107
Serial Mixed Valent Layers	**Diode-Like** Property of Prussian Blue Films Containing Concentration Gradients in	11	3788
nthesis of Urea at Gas-Diffusion Electrodes. III. Simultaneous Reduction of Carbon	**Dioxide** and Nitrite Ions with Various Metal Catalysts Electrochemical Sy	2	595
nthesis of Urea at Gas-Diffusion Electrodes. IV. Simultaneous Reduction of Carbon	**Dioxide** and Nitrate Ions with Various Metal Catalysts Electrochemical Sy	7	2348
omposition, and Microstructure of Low-Pressure Chemical Vapor Deposited Silicon	**Dioxide** Films Grown from TEOS/N2O Mixtures Thermodynamic Study, C	4	1310
The Role of Carbon	**Dioxide** in the Atmospheric Corrosion of Zinc. A Laboratory Study	1	39
tonitrile Catalytic Reduction of	**Diphenyl** Disulfide by Cobalt(I) Salen Electrogenerated at a Carbon Cathode in Ace	10	3374
olymerization and Spectroscopic Characterization of Novel Amide Polymers Using	**Diphenylamine** Coupling Electro-oxidative P	8	2648
Ultraclean Si/Si Interface Formation by Surface Preparation and	**Direct** Bonding in Ultrahigh Vacuum	8	1646
des	**Direct** Electron Transfer for Hemoglobin in Surfactant Films Cast on Carbon Electro	2	533
Microelectrodes	**Direct** Electrochemical Detection of C60 in Solution by Steady-State Voltammetry at	4	1227
nge and Transport in Air-Perovskite-Yttria-Stabilized Zirconia Interface Regions. II.	**Direct** Exchange of Oxygen Vacancies Mathematical Modeling of Oxygen E	4	1390
he Nickel Hydroxide Electrode Evidence for	**Direct** Gamma-NiOOH Beta-Ni(OH)2 Transitions during Electrochemical Cycling of t	5	1434
A Methanol Sensor for Portable	**Direct** Methanol Fuel Cells	11	3783
state Electrolyte	**Direct** Observation of Anodic Films Formed on Gallium Phosphide in Aqueous Tung	9	3011
A Contactless Method for the	**Directed** Formation of Submicrometer Copper Wires	3	L45
l Model for Intercalation Electrode Behavior. I. Effect of Particle-Size Distribution on	**Discharge** Capacity A Mathematica	3	771
The Effect of Annealing on the	**Discharge** Characteristics of a Zr-V-Mn-Ni Hydrogen Storage Alloy	5	1953
elds A Study on the Origin of Nonfaradaic Behavior of Anodic Contact Glow	**Discharge** Electrolysis. The Relationship Between Power Dissipated in Glow Disch	7	2209
The Effect of Particle Size on the	**Discharge** Performance of a Nickel-Metal Hydride Cell	6	1840
The Role of Oxygen at the Second	**Discharge** Plateau of Nickel Hydroxide	1	34
l Characterization of Thin SiO2 Films on Silicon Created by Anodic Oxygen Corona	**Discharge** Processing Electrica	8	2937
	Discharge Rate Capability of the LiCoO2 Electrode	2	482
Self-Discharge of LiMn2O4/C Li-Ion Cells in Their	**Discharged** State. Understanding by Means of Three-Electrode Measurements	1	194
Glow Discharge Electrolysis. The Relationship Between Power Dissipated in Glow	**Discharges** and Nonfaradaic Yields A Study on the Origin of Nonfaradaic B	7	2209
Power Measurements for Radio-Frequency	**Discharges** with a Parallel-Plate-Type Reactor	5	1701
rmination of Surface Charge Distribution Current Distribution on a Rotating	**Disk** Electrode below the Mass-Transfer-Limited Current. Correction for Finite Schm	6	1940
Galvanostatic Pulse and Pulse Reverse Plating of Nickel-Iron Alloys on a Rotating	**Disk** Electrode Modeling the	6	2033
Characterization of High-Surface-Area Electrocatalysts Using a Rotating	**Disk** Electrode Configuration	7	2354
O2 Reduction on an Ink-Type Rotating	**Disk** Electrode Using Pt Supported on High-Area Carbons	11	3713
Computer Simulation Gravitational Stress-Induced	**Dislocations** in Large-Diameter Silicon Wafers Studied by X-Ray Topography and	7	2523
Large Hysteresis during Lithium Insertion into and Extraction from High-Capacity	**Disordered** Carbons	2	478
Lithium Insertion into	**Disordered** Carbons Prepared from Designed Organic Polymers	9	3123
ge X-Ray Absorption Spectra of Carbon Monoxide Adsorbed on Platinum Particles	**Dispersed** in High-Area Carbon in Aqueous Electrolytes In Situ Real-Time P	1	80
Electrodeposited Ti2O3-Matrix Composites. I. Effect of the	**Dispersed** Phase on Nucleation and Growth of the Matrix	2	549
The Electrocatalytic Oxidation of Methanol at Finely	**Dispersed** Platinum Nanoparticles in Polypyrrole Films	1	124
Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electroluminescent Flat Panel	**Display** Applications In Situ Pulsed Deposition	12	4271
r of Anodic Contact Glow Discharge Electrolysis. The Relationship Between Power	**Dissipated** in Glow Discharges and Nonfaradaic Yields A Study on the Origi	7	2209
Family of Boron-Based Anion Receptors and the Study of Their Effect on Ion Pair	**Dissociation** and Conductivity of Lithium Salts in Nonaqueous Solutions Th	8	2813
ctance Data Estimation of	**Dissociation** Parameters of Electrolytes at High Temperatures from Specific Condu	12	4107
The Effect of Mass Transport on Li Deposition and	**Dissolution**	9	3094
Cu	**Dissolution** from Si(111) into an SC-1 Process Solution	4	L60
Aluminum and Aluminum Alloy	**Dissolution** in Concentrated Phosphoric Acid	12	4067
In Situ Characterization of the p-Si/NH4F Interface during	**Dissolution** in the Current Oscillations Regime	2	498
The Mechanism of the Oxidative	**Dissolution** of Colloidal Gold in Cyanide Media	2	408
The Mechanism of the Transpassive	**Dissolution** of Chromium in Acidic Sulfate Solutions	6	2043
In Situ Infrared Study of the Oscillating Anodic	**Dissolution** of Silicon in Fluoride Electrolytes	3	964
de Ion An In Situ Electrochemical Quartz Crystal Microbalance Study of the	**Dissolution** Process of a Gold Electrode in Perchloric Acid Solution Containing Chl	5	1614
Current Efficiency of an Ion-Selective Membrane: Effect of Fixed Charge	**Distribution**	4	1088
urrent. Correction for Finite Schmidt Number and Determination of Surface Charge	**Distribution** Current Distribution on a Rotating Disk Electrode below the Ma	6	1940
Current	**Distribution** at Porous Electrodes-Solid Oxide Electrolyte Interface	9	3130
Secondary Current	**Distribution** in a Curvilinear Hull Cell	9	3042
The Impact of Graphite Furnace Parts on Radial Impurity	**Distribution** in Czochralski-Grown Single-Crystal Silicon	2	621
Interface States	**Distribution** in Electrical Stressed Oxynitrided Gate-Oxide	7	2489
Schmidt Number and Determination of Surface Charge Distribution Current	**Distribution** on a Rotating Disk Electrode below the Mass-Transfer-Limited Current	6	1940
A Mathematical Model for Intercalation Electrode Behavior. I. Effect of Particle-Size	**Distribution** on Discharge Capacity	3	771
Effect of Current	**Distribution** on Quartz Crystal Microbalance Measurements	2	492
Catalytic Reduction of Diphenyl	**Disulfide** by Cobalt(I) Salen Electrogenerated at a Carbon Cathode in Acetonitrile	10	3374
bility Impact of Floating Gate	**Dopant** Concentration and Interpoly Dielectric Processing on Tunnel Dielectric Relia	4	1351
	Dopant Effects on Lateral Silicide Growth in Self-Aligned Titanium Silicide Process	10	3585
onductors The Effects of	**Dopants** and A:B Site Nonstoichiometry on Properties of Perovskite-Type Proton C	5	1780
Grain Boundary Segregation of Cation	**Dopants** in Alpha -Al2O3 Scales	6	1819
W-Clad Layer Formation on Heavily	**Doped** p+-Si by Selective Chemical Vapor Deposition	12	4203
rature Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion Conductor. I.	**Doped** SmCoO3 as a New Cathode Material Intermediate Tempe	9	3177
Enhanced Diffusion of Boron in Si during	**Doping** from Borosilicate Glass	7	2534
Reduction of Electron-Beam Induced Degradation by Rare Earth	**Doping** in Y3(Al,Ga)5O12:Tb Phosphors	1	270
Fast Optical Spectroscopy of the Electrochemical	**Doping** of Poly(3,4-ethylenedioxythiophene)	11	3810
ilms by Vapor-Phase Processes and Their Electrochemical Properties. II. Effects of	**Doping** Strontium to LaMnO3 on the Electrode Properties Preparation of Pe	6	1999
the Electrochemical Behavior of Polymeric Carbon Induced by Heat-Treatment and	**Doping** with Lithium Ions Changes in	3	721
Processes in Ultrathin Buried Oxide Synthesis Stimulated by Low	**Dose** Ion Implantation	8	2964
Extension of	**Dose** Window for Low-Dose Separation by Implanted Oxygen	5	1735
Surface States and Photovoltaic Effects in CdSe Quantum	**Dot** Films	5	1748
Thickness Measurements of Epitaxial Layers of	**Double** Epitaxial Silicon Wafers by Far-Infrared Reflection	5	1720
A Low Temperature Silicon-on-Insulator Fabrication Process Using Si MBE on	**Double-Layer** Porous Silicon	5	1668
Hydrogen Annealing	**Drastic** Improvements of Gate Oxide Reliability by Argon Annealing Compared with	10	3628
Ion	**Drift** Processes in Pyrex-Type Alkali-Borosilicate Glass during Anodic Bonding	5	1755
Kinetic Study of the Oxidation of Gallium Nitride in	**Dry** Air	2	629
	Dry Etching of Deep Si Trenches for Released Resonators in a Cl2 Plasma	6	1767

		Issue	Page
	Dry Etching of SrS Thin Films	7	2461
	Dry Etch Patterning of LaCaMnO3 and SmCo Thin Films	7	2512
Copper	**Dry** Etching with Cl2/Ar Plasma Chemistry	7	2585
Impact of High-Temperature	**Dry** Local Oxidation on Gate Oxide Quality	7	2595
ved Lithium Metal Electrode Interfacial Properties. I. Electrochemical Properties of	**Dry** PEO-LiX System Composite Polymer Electrolytes with Impro	12	4126
Electrochemical Determination of the Porosity of Single and	**Duplex** PVD Coatings of Titanium and Titanium Nitride on Brass	12	4173
Magnetic Field Effects on Nickel Electrodeposition. II. A Steady-State and	**Dynamic** Electrochemical Study	12	4135
nitoring of Capacitance in Hemispherical Grain Polycrystalline Silicon for Advanced	**Dynamic** Random Access Memory Application Optical Mo	11	3935
con Crystals Point Defect	**Dynamics** and the Oxidation-Induced Stacking-Fault Ring in Czochralski-Grown Sili	1	302
Molecular	**Dynamics** Simulation of V2O5/Li2SiO3 Interface	6	2155

— E —

Thermoelectricity of Two-Phase Mixtures,	**Each** with a Different Type Charge Carrier, p-NiO/n-ZnO	3	1008
Reduction of Electron-Beam Induced Degradation by Rare	**Earth** Doping in Y3(Al,Ga)5O12:Tb Phosphors	1	270
Sealing of Anodized Aluminum Alloys with Rare	**Earth** Metal Salt Solutions	8	2792
n Aluminum. II. An X-Ray Photoelectron Spectroscopy and X-Ray Absorption Near	**Edge** Structure Study Acid-Base Properties of Passive Films o	3	829
Thin-Film Properties and Barrier	**Effectiveness** of Chemically Vapor Deposited Amorphous WSix Film	12	4206
The Effect of Several Benzyl Alcohols and Electron Bridging Anions on the Current	**Efficiency** for Deposition of Cadmium	3	801
Current	**Efficiency** of an Ion-Selective Membrane: Effect of Fixed Charge Distribution	4	1088
Predicting and Modeling the Low-Voltage Cathodoluminescent	**Efficiency** of Oxide Phosphors	9	3165
Deposition Temperature Dependence of Optical Gap and Coloration	**Efficiency** Spectrum in Electrochromic Tungsten Oxide Films	5	1729
oichiometry of Radio-Frequency Sputtered Films Toward	**Efficient** Electrochromic NiOx Films. A Study of Microstructure, Morphology, and St	1	235
Application of Laser-Cleaning Technique for	**Efficient** Removal of Via-Etch-Induced Polymers	11	3966
ation	**Elastic** Bending of Semiconductor Wafer Revisited and Comments on Stoney's Equ	10	3621
Differentiation Between	**Electric** Breakdowns and Dielectric Breakdown in Thin Silicon Oxides	3	1033
Microstructural Changes in a Polycrystalline, Semiconducting Oxide under DC	**Electric** Fields	12	4243
	Electric Properties of [(ZrO2)0.8(CeO2)0.2]0.9(CaO)0.1 Solid Solution	7	2552
valuation of Zr(Ni,Mn)2 Laves Phase Alloys as Negative Active Material for Ni-MH	**Electric** Vehicle Batteries E	5	1478
The Effect of the Lead Alloy Hardening Process in	**Electric** Vehicle Storage Batteries on Corrosion Resistance	9	3183
	Electrical and Recombination Properties of Copper-Silicide Precipitates in Silicon	11	3989
h Temperature	**Electrical** Characterization of 6H-SiC Metal Oxide Semiconductor Structures at Hig	1	299
Excellent	**Electrical** Characteristics of Ultrafine Trench Isolation	5	1684
Corona Discharge Processing	**Electrical** Characterization of Thin SiO2 Films on Silicon Created by Anodic Oxygen	8	2937
	Electrical Characterization of the Semiconducting Properties of n-TiO2	10	3550
gnetron Sputtering Temperature Dependence of the	**Electrical** Properties of SrBi2Ta2O9 Thin Films Deposited by Radio-Frequency Ma	4	1330
Optimized Diode Analysis of	**Electrical** Silicon Substrate Properties	6	2107
Interface States Distribution in	**Electrical** Stressed Oxynitrided Gate-Oxide	7	2489
Degradation of 4-Chlorophenol by Anodic Oxidation,	**Electro-Fenton**, Photoelectro-Fenton, and Peroxi-Coagulation Processes	3	759
ucting Membranes Phenomenological Theory of	**Electro-osmotic** Effect and Water Management in Polymer Electrolyte Proton-Cond	8	2684
Ethanol	**Electro-oxidation** in Ruthenium-Oxide-Coated Titanium Electrodes	11	3839
ethanol Deposition of Ru Adatoms on Pt Using Organometallic Chemistry.	**Electro-oxidation** of Methanol, Ethanol, 1,2-Ethanediol, and D-Glucose over a Pt-R	12	4182
	Electro-oxidative Deposition of C60 via Scanning Electrochemical Microscope	2	503
de Polymers Using Diphenylamine Coupling	**Electro-oxidative** Polymerization and Spectroscopic Characterization of Novel Ami	8	2648
oformed from a Solid-State Electropolymerization Reaction	**Electroactive** Materials Containing Macrocyclic Pseudo-Crown Ether Cavities Electr	12	4110
n Metal Oxides Common	**Electroanalytical** Behavior of Li Intercalation Processes into Graphite and Transitio	9	3024
Electrodeposited Ti2O3-Matrix Composites. II.	**Electrocatalysis** of Oxygen Evolution Reaction on Ti2O3/Co3O4 Composites	2	555
Surface Studies of CuxCo3-xO4 Electrodes for the	**Electrocatalysis** of Oxygen Evolution	7	2320
Area Carbon as an Electrocatalyst for Oxygen Reduction. I. Characterization of the	**Electrocatalyst** Heat-Treated Iron(III) Tetramethoxyphenyl Porphyrin Suppo	10	3493
ted Iron(III) Tetramethoxyphenyl Porphyrin Supported on High-Area Carbon as an	**Electrocatalyst** for Oxygen Reduction. I. Characterization of the Electrocatalyst	10	3493
Sputtered Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction	**Electrocatalysts**. I. Physical and Electrochemical Characterization	10	3507
Sputtered Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction	**Electrocatalysts**. II. Electrochemical Stability and Proposed Mechanism	10	3513
Characterization of High-Surface-Area	**Electrocatalysts** Using a Rotating Disk Electrode Configuration	7	2354
n Influence of Nitrogen-Containing Precursors on the	**Electrocatalytic** Activity of Heat-Treated Fe(OH)2 on Carbon Black for O2 Reductio	7	2411
n Polypyrrole Films The	**Electrocatalytic** Oxidation of Methanol at Finely Dispersed Platinum Nanoparticles i	1	124
Role of Electronic Property of Pt and Pt Alloys on	**Electrocatalytic** Reduction of Oxygen	12	4185
	Electrochemical-Calorimetric Studies of Lithium-Ion Cells	5	1489
Clay-Enhanced	**Electrochemiluminescence** and Its Application in the Detection of Glucose	8	2654
The	**Electrochromic** Behavior of Indium Tin Oxide in Propylene Carbonate Solutions	7	2225
Characterization of 3 x 3 Matrix Arrays of Solution-Phase	**Electrochromic** Cells	4	L55
Amorphous Nb/Fe-Oxide Ion-Storage Films for Counter Electrode Applications in	**Electrochromic** Devices	5	1607
Ion Potential Diagrams for	**Electrochromic** Devices	12	4212
Isotopic Effects in Cation-Injected	**Electrochromic** Films	3	1023
etry of Radio-Frequency Sputtered Films Toward Efficient	**Electrochromic** NiOx Films. A Study of Microstructure, Morphology, and Stoichiom	1	235
on Temperature Dependence of Optical Gap and Coloration Efficiency Spectrum in	**Electrochromic** Tungsten Oxide Films Depositi	5	1729
LiClO4 Time-Dependent	**Electrochromism** of Nanocrystalline TiO2 Films in Propylene Carbonate Solution of	6	1982
H Beta-Ni(OH)2 Transitions during Electrochemical Cycling of the Nickel Hydroxide	**Electrode** Evidence for Direct Gamma-NiOO	5	1434
Ultrathin Ta2O5 Film Capacitor with Ru Bottom	**Electrode**	8	2961
Formation of High Conductivity WSix Layer and Its Characterization as a Gate	**Electrode**	9	3228
drogenation of 4-Methylstyrene with Active Hydrogen Passing Through a Pd Sheet	**Electrode** Effect of Pd Black Deposits on Successive Hy	1	138
Geometric Requirements of Solid Electrolyte Cells with a Reference	**Electrode**	4	1184
d Mono-anion, Di-anion, and Solvent Transfers into a Poly(vinylferrocene)-Modified	**Electrode** Time-Resolve	2	L24
Photochemical and Photoelectrochemical Behavior of a Novel TiO2/Ni(OH)2	**Electrode**	7	2380
Mass Transfer and Kinetic Phenomena at the Nickel Hydroxide	**Electrode**	11	3860
orphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Point	**Electrode** M	7	2244
anostatic Pulse and Pulse Reverse Plating of Nickel-Iron Alloys on a Rotating Disk	**Electrode** Modeling the Galv	6	2033
ical Identification of the Hydrogen Sulfide System Using a pH2S (glass/Ag, Ag2S)	**Electrode** Electrochem	1	77
Temperature Dependence of the Oxygen Evolution Reaction on the Pb/PbO2	**Electrode**	1	70
lymerized Polyindole. Application in the Construction of a Solid-State, Ion-Selective	**Electrode** Characterization of Electropo	12	4103
Discharge Rate Capability of the LiCoO2	**Electrode**	2	482
rg Impedance Rotating Hemispherical	**Electrode**. Accurate Expressions for the Limiting Current and the Convective Warbu	12	4189
ss Electrochemical Oxidation in a CH4-H2O System at the Interface of a Pt	**Electrode** and Y2O3-Stabilized ZrO2 Electrolyte. I. Determination of the Predomina	3	920
lial Electrochemical Oxidation in a CH4-H2O System at the Interface of a Pt	**Electrode** and Y2O3-Stabilized ZrO2 Electrolyte. II. The Rates of Electrochemical R	9	3117
Amorphous Nb/Fe-Oxide Ion-Storage Films for Counter	**Electrode** Applications in Electrochromic Devices	5	1607
A Mathematical Model for Intercalation	**Electrode** Behavior. I. Effect of Particle-Size Distribution on Discharge Capacity	3	771
ation of Surface Charge Distribution Current Distribution on a Rotating Disk	**Electrode** below the Mass-Transfer-Limited Current. Correction for Finite Schmidt N	6	1940
Kinetic Behavior of Metal Hydride	**Electrode** by Means of AC Impedance	6	1801
Characterization of High-Surface-Area Electrocatalysts Using a Rotating Disk	**Electrode** Configuration	7	2354
Microstructures on Performance of Ceria-Based Anodes High-Performance	**Electrode** for Medium-Temperature Solid Oxide Fuel Cells. Effects of Composition	2	615
Impedance Characteristics of Oxygen Reduction at a Platinum	**Electrode** in Alkaline Electrolyte	3	936
rochemical Quartz Crystal Microbalance Study of the Dissolution Process of a Gold	**Electrode** in Perchloric Acid Solution Containing Chloride Ion An In Situ Elec	5	1614
m Composite Polymer Electrolytes with Improved Lithium Metal	**Electrode** Interfacial Properties. I. Electrochemical Properties of Dry PEO-LiX Syste	12	4126
Composite Polymer Electrolytes with Improved Lithium Metal	**Electrode** Interfacial Properties. II. Application in Rechargeable Batteries	12	4133
Electrochemistry of Chemically Lithiated NaV3O8: A Positive	**Electrode** Material for Use in Rechargeable Lithium-Ion Batteries	2	421
Keggin-Type Heteropolyacids as	**Electrode** Materials for Electrochemical Supercapacitors	3	737
oprecipitation Method and Their Electrochemical Performance as Lithium Insertion	**Electrode** Materials Characterization of Layered Lithium Nickel Manganese	4	1113
Properties of Polyphenylquinoxaline Acid Complex as an	**Electrode** Material	4	1193
Chemical Formation of a Solid Electrolyte Interface on the Carbon	**Electrode** of a Li-Ion Cell	5	1508

		Issue	Page
Effects on the Positive	**Electrode** of the Corrosion of AB5 Alloys in Nickel-Metal-Hydride Batteries	2	456
Lithiated Nickel Oxide	**Electrode** Performance in Molten K2S2O7/V2O5 and K2SO4/V2O5 Systems	3	892
f Faradaic Admittance for Electrode Processes Involving n State Variables Besides	**Electrode** Potential An Investigation o	2	517
An Investigation of Faradaic Admittance for	**Electrode** Processes Involving n State Variables Besides Electrode Potential	2	517
Low Temperature Synthesis and	**Electrode** Properties of Li4Mn5O12	4	L53
Their Electrochemical Properties. II. Effects of Doping Strontium to LaMnO3 on the	**Electrode** Properties Preparation of Perovskite-Type La1-xSrxMnO3 Films b	6	1999
The Impact of the Operation Mode on Pattern Formation in	**Electrode** Reactions: From Potentiostatic to Galvanostatic Control	7	2404
Modeling the Twin Platinum Probe Scanning	**Electrode** Response	12	4074
for Structure High Temperature Barrier	**Electrode** Technology for High Density Ferroelectric Memories with Stacked Capaci	7	2563
O2 Reduction on an Ink-Type Rotating Disk	**Electrode** Using Pt Supported on High-Area Carbons	11	3713
Mechanistic Studies of CO2 Reduction on a Mediated	**Electrode** with Conducting Polymer and Inorganic Conductor Films	11	3801
Shape Evolution of	**Electrodeposited** Bumps with Deep Cavity	9	3007
Current Evolution of	**Electrodeposited** Copper Bumps with Photoresist Angle	3	840
In Situ X-Ray Absorption Spectroscopic Study of	**Electrodeposited** Nickel Oxide Films during Redox Reactions	4	1121
Characterization of Flow-Induced Compositional Structure in	**Electrodeposited** NiFe Composition-Modulated Alloys	8	2827
14.1% CuIn1-xGaxSe2-Based Photovoltaic Cells from	**Electrodeposited** Precursors	10	3436
cleation and Growth of the Matrix	**Electrodeposited** Ti2O3-Matrix Composites. I. Effect of the Dispersed Phase on Nu	2	549
n Reaction on Ti2O3/Co3O4 Composites	**Electrodeposited** Ti2O3-Matrix Composites. II. Electrocatalysis of Oxygen Evolutio	2	555
Magnetic Field Effects on Nickel	**Electrodeposition**	2	401
Magnetoresistance Effect in Co-Ag and Co-Cu Alloy Films Prepared by	**Electrodeposition**	2	565
A 10% Cu(In,Ga)Se2 Based Photovoltaic Structure Formed by	**Electrodeposition** and Subsequent Thermal Processing	10	3613
Magnetic Field Effects on Nickel	**Electrodeposition**. II. A Steady-State and Dynamic Electrochemical Study	12	4135
Pulse Reverse Copper	**Electrodeposition** in High Aspect Ratio Trenches and Vias	9	3070
Linear Stability Analysis of Unsteady Galvanostatic	**Electrodeposition** in the Two-Dimensional Diffusion-Limited Regime	6	2016
Acetonitrile	**Electrodeposition** of Amorphous Fe2O3 Films by Reduction of Iron Perchlorate in	2	385
The Development of a Stable Citrate Electrolyte for the	**Electrodeposition** of Copper-Nickel Alloys	3	875
	Electrodeposition of Copper under Microgravity Conditions	6	1876
ure Chloroaluminate Molten Salt	**Electrodeposition** of Copper and Copper-Aluminum Alloys from a Room-Temperat	9	3110
perimental Study	**Electrodeposition** of Iron-Group Metals and Binary Alloys from Sulfate Baths. I. Ex	3	981
Oxygen Incorporation during the	**Electrodeposition** of Ni, Fe, and Ni-Fe Alloys	11	3699
Mechanistic Studies on the	**Electrodeposition** of ZnTe	1	337
Aqueous Zinc Chloride Solutions Mechanistic Study of Cathodic	**Electrodeposition** of Zinc Oxide and Zinc Hydroxychloride Films from Oxygenated	3	864
Estimation of Front Velocity in	**Electrodeposition** onto Highly Resistive Substrates	1	165
d Palladium-Iron Alloy Films Pulsed	**Electrodeposition** Synthesis and Hydrogen Absorption Properties of Nanostructure	10	3339
Microelectrode Evaluation of Transition Metal-Aluminum Alloy	**Electrodepositions** in Chloroaluminate Ionic Liquids	5	1598
dance Studies of the Oxygen Reduction on Thin Porous Coating Rotating Platinum	**Electrodes** Impe	7	2307
Direct Electron Transfer for Hemoglobin in Surfactant Films Cast on Carbon	**Electrodes**	2	533
Improvement of Electrochemical Performance of Lanthanum Manganite Composite	**Electrodes** The Role of 8 mol % Yttria Stabilized Zirconia in the	5	1932
Water Electrolysis Using Diamond Thin-Film	**Electrodes**	7	2358
Photoelectrochemical Reduction of CO2 at High Current Densities at p-InP	**Electrodes**	5	L82
lectronic Network Modeling of Rechargeable Batteries. I. The Nickel and Cadmium	**Electrodes** E	11	3764
Electrochemical Study of NO Conversion from Fe(II)-EDTA-NO Complex on Pt	**Electrodes**	1	83
Thin-Film Crystalline SnO2-Lithium	**Electrodes**	1	1
Ethanol Electro-oxidation in Ruthenium-Oxide-Coated Titanium	**Electrodes**	11	3839
Kinetic Study of the Formation of Oxygen Vacancy on Lanthanum Manganite	**Electrodes**	2	373
ffects of gamma-NiOOH on Cell Performance and a Method to Quantify It in Nickel	**Electrodes** Characteristics and E	1	116
on of the Electrochemical Reduction of Carbonate Electrolyte Solutions at Graphite	**Electrodes** In Situ Investigati	4	1081
Photoelectrocatalytic Study of Water Oxidation at n-RuS2	**Electrodes**	1	216
Modeling Side Reactions in Composite LiyMn2O4	**Electrodes**	3	990
Li4Ti5O12//PAN Electrolyte//LiMn2O4 Rechargeable Battery with Passivation-Free	**Electrodes** The	8	2615
mmetric Studies of the Behavior of Carbon Black during Phenol Oxidation on Ti/Pt	**Electrodes** Volta	8	2763
Mass Transport in Gas-Diffusion	**Electrodes**: A Diagnostic Tool for Fuel-Cell Cathodes	1	5
Characterizations of Iron-Containing Clay Modified	**Electrodes** and Their Applications for Glucose Sensing	1	154
arge/Discharge Rates and Morphology, Surface Chemistry, and Performance of Li	**Electrodes** and the Connection to Cycle Life of Practical Batteries The Corr	5	1421
Electrochemical Promotion of Pt Catalyst	**Electrodes** Deposited on Na3Zr2Si2PO12 during Ethylene Oxidation	5	1469
tability and Photoresponse of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Film	**Electrodes** during Water Splitting Reactions S	1	89
A Neutron Reflectivity Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film Modified	**Electrodes**: Effect of pH and Counterion	5	1454
Microstructural Features of alpha-MnO2	**Electrodes** for Lithium Batteries	2	582
Electrochemical Behavior of Highly Conductive Boron-Doped Diamond	**Electrodes** for Oxygen Reduction in Alkaline Solution	6	1870
Surface Studies of CuxCo3-xO4	**Electrodes** for the Electrocatalysis of Oxygen Evolution	7	2320
Improved Preparation Process of Very-Low-Platinum-Loading	**Electrodes** for Polymer Electrolyte Fuel Cells	11	3708
ous Metal Catalysts Electrochemical Synthesis of Urea at Gas-Diffusion	**Electrodes**. III. Simultaneous Reduction of Carbon Dioxide and Nitrite Ions with Vari	2	595
Reactivation of Passivated Iron	**Electrodes** in a Magnetic Field	7	2214
Study of the Hydrogen Evolution Reaction on Ni-Mo-P	**Electrodes** in Alkaline Solutions	7	2219
Optimization of the Dimensions of Vapor-Grown Carbon Fiber for Use as Negative	**Electrodes** in Lithium-Ion Rechargeable Cells	1	210
Single-Electrode Peltier Heats of Li-Si Alloy	**Electrodes** in LiCl-KCl Eutectic Melt	6	1986
Equivalent Circuit Approximation to Porous Mixed-Conducting Oxygen	**Electrodes** in Solid-State Cells	1	142
rious Metal Catalysts Electrochemical Synthesis of Urea at Gas-Diffusion	**Electrodes**. IV. Simultaneous Reduction of Carbon Dioxide and Nitrate Ions with Va	7	2348
Adsorption of Thiourea on Copper	**Electrodes** Monitored by In Situ Infrared Spectroscopy	10	3366
Spectroelectrochemical Studies of Indium Hexacyanoferrate	**Electrodes** Prepared by the Sacrificial Anode Method	7	2334
Hydrogen Evolution on Thin-Film Deposited	**Electrodes** Prepared by a Plasma-Based Technique	9	3150
Theoretical Analysis of Metal Hydride	**Electrodes**. Studies on Equilibrium Potential and Exchange Current Density	12	4082
Nanofabrication of Small Palladium Clusters on Au(111)	**Electrodes** with a Scanning Tunnel Microscope	3	L33
The Electrochemical Performance of Pd-Coated Metal Hydride	**Electrodes** with Different Binding Additives in Alkaline Solution	12	4169
Current Distribution at Porous	**Electrodes-Solid** Oxide Electrolyte Interface	9	3130
Electroactive Materials Containing Macrocyclic Pseudo-Crown Ether Cavities	**Electroformed** from a Solid-State Electropolymerization Reaction	12	4110
Catalytic Reduction of Diphenyl Disulfide by Cobalt(I) Salen	**Electrogenerated** at a Carbon Cathode in Acetonitrile	10	3374
	Electrogeneration of Hydroperoxide Ion Using an Alkaline Fuel Cell	10	3444
Studies on	**Electroless** Cobalt Coatings for Microencapsulation of Hydrogen Storage Alloys	9	3000
n Intermediate Layer Adhesion Mechanism of	**Electroless** Copper Film Formed on Ceramic Substrates Using ZnO Thin Film as a	5	1430
Sequential Observation of	**Electroless** Copper Deposition via Noncontact Atomic Force Microscopy	9	3301
Formation of Catalytic Pd on ZnO Thin Films for	**Electroless** Metal Deposition	10	3378
Study of the Structural Change Due to Heat-Treatment in High Resistivity	**Electroless** NiPC Film	7	2419
Gradient Control of Magnetic Properties in	**Electroless-Deposited** CoNiP Thin Films	1	134
mical Formation of Polypyrrole/SiO2 Composite Film and Its Application to Organic	**Electroluminescence** Devices Electroche	4	1126
In Situ Pulsed Deposition Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film	**Electroluminescent** Flat Panel Display Applications	12	4271
Kolbe	**Electrolysis** of Acetic Acid in a Polymer Electrolyte Membrane Reactor	11	3728
A Study on the Origin of Nonfaradaic Behavior of Anodic Contact Glow Discharge	**Electrolysis**. The Relationship Between Power Dissipated in Glow Discharges and	7	2209
Water	**Electrolysis** Using Diamond Thin-Film Electrodes	7	2358
Observation of Anodic Films Formed on Gallium Phosphide in Aqueous Tungstate	**Electrolyte** Direct	9	3011
vestigations on the Electroreduction of Titanium Chlorides in AlCl3-Dimethylsulfone	**Electrolyte** In	1	110
mpedance Characteristics of Oxygen Reduction at a Platinum Electrode in Alkaline	**Electrolyte** I	3	936
Ion Association and Solvation Studies of LiClO4/Ethylene Carbonate	**Electrolyte** by Raman and Infrared Spectroscopy	10	3346
Geometric Requirements of Solid	**Electrolyte** Cells with a Reference Electrode	4	1184
An Advanced Tool for the Selection of	**Electrolyte** Components for Rechargeable Lithium Batteries	10	3482
Solid Oxide Fuel Cell with Composite	**Electrolyte** Consisting of Samaria-Doped Ceria and Yttria-Stabilized Zirconia	3	1004
The Development of a Stable Citrate	**Electrolyte** for the Electrodeposition of Copper-Nickel Alloys	3	875
proved Preparation Process of Very-Low-Platinum-Loading Electrodes for Polymer	**Electrolyte** Fuel Cells Im	11	3708

		Issue	Page
in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2	**Electrolyte**. I. Determination of the Predominant Reaction Process Electroch	3	920
in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2	**Electrolyte**. II. The Rates of Electrochemical Reactions Taking Place in Parallel	9	3117
Silicon Hole Injection at the Silicon/Aqueous	**Electrolyte** Interface: A Possible Mechanism for Chemiluminescence from Porous	4	1232
Chemical Formation of a Solid	**Electrolyte** Interface on the Carbon Electrode of a Li-Ion Cell	5	1506
Current Distribution at Porous Electrodes-Solid Oxide	**Electrolyte** Interface	9	3130
of Self-Humidification and Suppression of Gas Crossover in Pt-Dispersed Polymer	**Electrolyte** Membranes for Fuel Cells Analyses	4	1137
Kolbe Electrolysis of Acetic Acid in a Polymer	**Electrolyte** Membrane Reactor	11	3728
Influence of Humidity on a Potentiometric CO2 Gas Sensor Using a Combined	**Electrolyte** of Sodium Ion Conducting Glass and Stabilized Zirconia	9	2981
The Effect of	**Electrolyte** Properties on the Mechanism of Crevice Corrosion in Pure Iron	6	1862
omenological Theory of Electro-osmotic Effect and Water Management in Polymer	**Electrolyte** Proton-Conducting Membranes Phen	8	2684
In Situ Investigation of the Electrochemical Reduction of Carbonate	**Electrolyte** Solutions at Graphite Electrodes	4	1081
A Study of Lithium Deposition-Dissolution Processes in a Few Selected	**Electrolyte** Solutions by Electrochemical Quartz Crystal Microbalance	8	2629
Negative Impedance of the Nafion Membrane Between Two	**Electrolyte** Solutions	8	2740
Electron Spin Resonance Study of the Electrochemical Reduction of	**Electrolyte** Solutions for Lithium Secondary Batteries	11	3757
High Anodic Stability of a New	**Electrolyte** Solvent: Unsymmetric Noncyclic Aliphatic Sulfone	4	L70
Raman Spectroelectrochemistry of a Lithium/Polymer	**Electrolyte** Symmetric Cell	9	3034
Modeling of the Transient Behavior of Anodic Oxides Formed in Si/HF	**Electrolyte** Systems	1	332
Transport Property and Raman Spectroscopic Studies of the Polymer	**Electrolyte** System P(EO)n-NaTFSI	5	1586
Preparation of Micron-Sized Li4Ti5O12 and Its Electrochemistry in Polyacrylonitrile	**Electrolyte-Based** Lithium Cells	8	2609
The Li4Ti5O12//PAN	**Electrolyte//LiMn2O4** Rechargeable Battery with Passivation-Free Electrodes	8	2615
noxide Adsorbed on Platinum Particles Dispersed in High-Area Carbon in Aqueous	**Electrolytes** In Situ Real-Time Pt LIII-Edge X-Ray Absorption Spectra of Ca	1	80
nsing Properties of an Oxygen Sensor Using BaCe0.8Gd0.2O3-alpha Ceramics as	**Electrolytes** Se	5	1744
Engineering of Solid Oxide Fuel Cells with Ceria-Based	**Electrolytes**	2	414
The Mechanism of Electropolishing of Titanium in Methanol-Sulfuric Acid	**Electrolytes**	7	2362
In Situ Infrared Study of the Oscillating Anodic Dissolution of Silicon in Fluoride	**Electrolytes**	3	964
Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide	**Electrolytes** Comparison of Power Densities and Chemical	1	99
Estimation of Dissociation Parameters of	**Electrolytes** at High Temperatures from Specific Conductance Data	12	4107
Scattering Spectroscopy The Passivity of Fe/Si Alloys in Aqueous	**Electrolytes** at pH 5 and 9 Studied by X-Ray Photoelectron Spectroscopy and Ion	3	834
echargeable Lithium-Polymer Batteries Polymer	**Electrolytes** Based on Acrylonitrile-Methyl Methacrylate-Styrene Terpolymers for R	6	1958
the Addition of LiClO4/Propylene Carbonate An Investigation of Composite	**Electrolytes** by Mixing Polyethylene Oxide- and Polytetramethylene Glycol-Based	10	3450
Study of Ionic Transport Mechanism in Fire-Retardant Polyacrylonitrile-Based Gel	**Electrolytes** for Li Polymer Batteries An Ionic Conductivity and Spectroscopi	3	881
reparation and Characterization of Poly(vinyl chloride-co-vinyl acetate)-Based Gel	**Electrolytes** for Li-Ion Batteries P	4	1207
Electrochemical Properties of GeS2-Based Glass-Polymer Composite	**Electrolytes** for Lithium-Ion Batteries	6	1949
nesulfonato(2-)-O,O'] borate(1-), a New Anodically and Cathodically Stable Salt for	**Electrolytes** of Lithium-Ion Cells Lithium Bis[5-fluoro-2-olato-1-benze	2	L17
Electrochemical Stability of p-GaInP2 in Aqueous	**Electrolytes** Toward Photoelectrochemical Water Splitting	10	3335
Study of Ion-Transport Properties in Polymer	**Electrolytes** Using a Novel Electrochemical Method	3	744
Network Polymer	**Electrolytes** with Free Chain Ends as Internal Plasticizer	5	1521
chemical Properties of Dry PEO-LiX System Composite Polymer	**Electrolytes** with Improved Lithium Metal Electrode Interfacial Properties. I. Electro	12	4126
tion in Rechargeable Batteries Composite Polymer	**Electrolytes** with Improved Lithium Metal Electrode Interfacial Properties. II. Applica	12	4133
Kinetics of Vapor-Phase	**Electrolytic** Deposition of Yttria-Stabilized Zirconia Thin Films	12	4277
Effect of Benzotriazole on the Anisotropic	**Electrolytic** Etching of Copper	9	3016
Thermocapillary Phenomena and Bubble Coalescence during	**Electrolytic** Gas Evolution	6	1848
Report of the	**Electrolytic** Industries for the Year 1997	10	3668
Application of Hydrogen Diffusion Anodes in	**Electrolytic** Processes Using Methanol-Water Mixtures	5	1502
The Effect of Several Benzyl Alcohols and	**Electron** Bridging Anions on the Current Efficiency for Deposition of Cadmium	3	801
Analysis of the Superior Water Blocking Ability of	**Electron** Cyclotron Resonance-Plasma SiO2 Film	4	1338
Effects of SnO2 on the Phosphor Screen Behaviors under Low Energy	**Electron** Excitation	2	648
aAs with Brilliant X-Ray Irradiation Using Synchrotron Radiation Inner-Shell	**Electron** Excitation Effect on the Structural Change in Amorphous and Crystalline G	9	3063
	Electron Field Emission from Chemical Vapor Deposited Diamond Films	7	2572
Reliability Improvement of AlInAs/GaInAs High	**Electron** Mobility Transistors by Fluorine Incorporation Control	8	2951
High Density Plasma Damage in InGaP/GaAs and AlGaAs/GaAs High	**Electron** Mobility Transistors	11	4036
utions for Lithium Secondary Batteries	**Electron** Spin Resonance Study of the Electrochemical Reduction of Electrolyte Sol	11	3757
Direct	**Electron** Transfer for Hemoglobin in Surfactant Films Cast on Carbon Electrodes	2	533
hosphors Reduction of	**Electron-Beam** Induced Degradation by Rare Earth Doping in Y3(Al,Ga)5O12:Tb P	1	270
m Electrodes	**Electronic** Network Modeling of Rechargeable Batteries. I. The Nickel and Cadmiu	11	3764
	Electronic Network Modeling of Rechargeable Batteries. II. The NiCd System	11	3774
Measurements of VOCs with a Semiconductor	**Electronic** Nose	7	2486
Role of	**Electronic** Property of Pt and Pt Alloys on Electrocatalytic Reduction of Oxygen	12	4185
Chemical Diffusion Coefficients of Mixed Ionic-Electronic Conductors with Arbitrary	**Electronic** Transport Numbers. Application of Impedance, Potentiostatic, and Galva	6	2179
An Analysis of the Binder Formation in	**Electrophoretic** Deposition	4	1253
A Study of the Adhesion of	**Electrophoretically** Deposited Phosphors	4	1245
A Novel Gold	**Electroplating** System: Gold(I)-Iodide-Thiosulfate	3	974
The Mechanism of	**Electropolishing** of Titanium in Methanol-Sulfuric Acid Electrolytes	7	2362
Modeling of Growth Morphology of Underpotential	**Electropolymerization** of Pyrrole on Graphite	1	179
Graphite Step and Pit Defects Template	**Electropolymerization** of Polypyrrole Nanostructures on Highly Ordered Pyrolytic	10	3320
taining Macrocyclic Pseudo-Crown Ether Cavities Electroformed from a Solid-State	**Electropolymerization** Reaction Electroactive Materials Con	12	4110
-Selective Electrode Characterization of	**Electropolymerized** Polyindole. Application in the Construction of a Solid-State, Ion	12	4103
In Situ Ellipsometric Study of the	**Electroprecipitation** of Nickel Hydroxide Films	4	1174
ancement in Chemical Interaction at Conducting Polymers/n-Si Interfaces by Their	**Electroreduction** Enh	2	711
Investigations on the	**Electroreduction** of Titanium Chlorides in AlCl3-Dimethylsulfone Electrolyte	1	110
Glycosyl Halides as Building Blocks for the	**Electrosynthesis** of Glycosides	4	1108
trol Monitor	**Electrosynthesis** of Sodium Hydrosulfite. I. Development of an Online Process Con	12	4052
	Electrosynthesis of Sodium Hydrosulfite. II. The Effect of Cathode Material	12	4057
s Model	**Electrosynthesis** of Sodium Hydrosulfite. III. Porous Cathode Materials and Proces	12	4062
A Finite	**Element** Study on the Grain Boundary Impedance of Different Microstructures	6	2081
g Properties of Passive Films Formed on Stainless Steels. Influence of the Alloying	**Elements** Semiconductin	11	3821
r Field Effect Transistors Parasitic Resistance Considerations of Using	**Elevated** Source/Drain Technology for Deep Submicron Metal Oxide Semiconducto	6	2131
An Investigation of Capacity Fading of Manganese Spinels Stored at	**Elevated** Temperature	11	3704
In Situ	**Ellipsometric** Study of the Electroprecipitation of Nickel Hydroxide Films	4	1174
As Cathodes during Hydrogen Evolution Characterized by In Situ Ultraviolet-Visible	**Ellipsometry** and In Situ Infrared Spectroscopy Surface Composition of n-G	2	447
esolution Scanning Electrochemical and Photoelectrochemical Microscopy	**Elucidation** of a Trigger Mechanism for Pitting Corrosion of Stainless Steels Using	8	2664
Electron Field	**Emission** from Chemical Vapor Deposited Diamond Films	7	2572
king in Wet H2S Correlation Between Acoustic	**Emission** Signals and Hydrogen Permeation in High Strength, Low Alloy Steel Crac	6	1968
the Correlation of Aqueous and Nonaqueous In Situ and Ex Situ Photoluminescent	**Emissions** from Porous Silicon. Evidence for Surface-Bound Emitters On	9	3284
A New Synthetic Method to Prepare Spherical Phosphors for	**Emissive** Screen Applications	3	1017
itu Photoluminescent Emissions from Porous Silicon. Evidence for Surface-Bound	**Emitters** On the Correlation of Aqueous and Nonaqueous In Situ and Ex S	9	3284
tress and Gate Oxide Integrity Optimization of Polysilicon	**Encapsulated** Local Oxidation of Silicon. Cavity Dimension Effects on Mechanical S	5	1653
ansistor Optimization of SiON Film Compositions for	**Encapsulation** of Refractory Metal Gate GaAs Metal-Semiconductor Field Effect Tr	1	323
Network Polymer Electrolytes with Free Chain	**Ends** as Internal Plasticizer	5	1521
Effects of SnO2 on the Phosphor Screen Behaviors under Low	**Energy** Electron Excitation	2	648
Control of Ion	**Energy** in a Capacitively Coupled Reactive Ion Etcher	12	4247
	Engineering of Solid Oxide Fuel Cells with Ceria-Based Electrolytes	2	414
ion of a-SiNx Thin Film with Low Hydrogen Content by Inductively Coupled Plasma	**Enhanced** Chemical Vapor Deposition Preparat	2	652
ydrogenated Silicon Films for Solar Cell Application Obtained with 55 kHz Plasma	**Enhanced** Chemical Vapor Deposition Amorphous H	7	2508
Microcrystalline Silicon Film Deposition from H2-He-SiH4 Using Remote Plasma	**Enhanced** Chemical Vapor Deposition	8	2900
enched CuO Ceramics	**Enhanced** CO and CO2 Gas Sensitivity of the CuO/ZnO Heterocontact Made by Qu	2	632
	Enhanced Diffusion of Boron in Si during Doping from Borosilicate Glass	7	2534
Field Oxide Thinning Behavior in Local Oxidation of Silicon Process under	**Enhanced** Oxidation Conditions	5	1664

	Issue	Page
Mechanisms of Film Growth Rate **Enhancement** in Anodic and Cathodic Corona-Discharge Oxidation Processes	8	2944
heir Electroreduction **Enhancement** in Chemical Interaction at Conducting Polymers/n-Si Interfaces by T	2	711
New Concept of Contrast **Enhancement** of Resist and Its Application to Positive-Type Resist	4	1335
chemical Noise by Power Spectral Density Applied to Corrosion Studies. Maximum **Entropy** Method or Fast Fourier Transform? Analysis of Electro	8	2780
enediaminetetraacetic Acid Evolution and **Entry** of Hydrogen into Iron during Cathodic Charging in Alkaline Solution with Ethyl	4	1142
Changes in the **Environment** of Hydrogen in Porous Silicon with Thermal Annealing	7	2439
Luminescence from Erbium-Doped Silicon **Epi** Layers Grown by Liquid-Phase Epitaxy	1	L8
Modeling and Process Optimization of ZnSe and ZnS **Epitaxial** Growth in a Vertical Metallorganic Vapor-Phase Epitaxy Reactor	8	2887
Thickness Measurements of **Epitaxial** Layers of Double Epitaxial Silicon Wafers by Far-Infrared Reflection	5	1720
Thickness Measurements of Epitaxial Layers of Double **Epitaxial** Silicon Wafers by Far-Infrared Reflection	5	1720
Effect of Fluorine on Surface Morphology in Selective **Epitaxial** TiSi2 Growth by Plasma-Enhanced Chemical Vapor Deposition	5	1640
Effects of Stoichiometry and Te Concentration on the Deep Levels in Liquid-Phase **Epitaxially** Grown n-Type Al0.3Ga0.7As	8	2905
Low Thermal Budget In Situ Surface Cleaning for Selective Silicon **Epitaxy**	10	3602
Luminescence from Erbium-Doped Silicon Epi Layers Grown by Liquid-Phase **Epitaxy**	1	L8
l and Electrochemical Passivation of PbSe Thin Layers Grown by Molecular Beam **Epitaxy** Chemica	2	512
Formation of Thin Films of CdTe, CdSe, and CdS by Electrochemical Atomic Layer **Epitaxy**	5	1442
Atomic Layer **Epitaxy** Growth of TiN Thin Films from TiI4 and NH3	8	2914
ization of the Growth of CdTe Thin Films Formed by Electrochemical Atomic Layer **Epitaxy** in an Automated Deposition System Optim	10	3594
anedionate/H2 Process Atomic Layer **Epitaxy** of Copper. Growth and Selectivity in the Cu(II)-2,2,6,6-tetramethyl-3,5-hept	8	2926
ization of ZnSe and ZnS Epitaxial Growth in a Vertical Metallorganic Vapor-Phase **Epitaxy** Reactor Modeling and Process Optim	8	2887
of Copper Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ **EQCM** and Phase Measurement Interferometric Microscopy Electrochemical	7	2369
Elastic Bending of Semiconductor Wafer Revisited and Comments on Stoney's **Equation**	10	3621
Aqueous Potential-pH **Equilibria** in Copper-Benzotriazole Systems	3	L42
Ternary Compounds and Phase **Equilibria** in Ti-Ge-C and Ti-Ge-B	9	3283
Theoretical Analysis of Metal Hydride Electrodes. Studies on **Equilibrium** Potential and Exchange Current Density	12	4082
n Solid-State Cells **Equivalent** Circuit Approximation to Porous Mixed-Conducting Oxygen Electrodes i	1	142
hotodissolution of Ag **Equivalent** Circuit Modeling of the AgAs0.24S0.36Ag0.40Ag System Prepared by P	9	2971
Luminescence from **Erbium-Doped** Silicon Epi Layers Grown by Liquid-Phase Epitaxy	1	L8
pecific Conductance Data **Estimation** of Dissociation Parameters of Electrolytes at High Temperatures from S	12	4107
Estimation of Front Velocity in Electrodeposition onto Highly Resistive Substrates	1	165
Aqueous KOH Etching of Silicon (110). **Etch** Characteristics and Compensation Methods for Convex Corners	7	2499
Controlled Anodic Oxidation for High Precision **Etch** Depth in AlGaAs III-V Semiconductor Structures	3	1076
l Hydrofluorocarbon and Iodofluorocarbon Chemistries for a High Aspect Ratio Via **Etch** in a High Density Plasma Etch Tool Use of Nove	12	4305
Dry **Etch** Patterning of LaCaMnO3 and SmCo Thin Films	7	2512
uorocarbon Chemistries for a High Aspect Ratio Via Etch in a High Density Plasma **Etch** Tool Use of Novel Hydrofluorocarbon and Iodofl	12	4305
A Mathematical Model for the Initiation of Aluminum **Etch** Tunnels	9	3100
Surface Roughness of Reactive Ion **Etched** 4H-SiC in SF6/O2 and CHF3/H2/O2 Plasmas	4	L58
Control of Ion Energy in a Capacitively Coupled Reactive Ion **Etcher**	12	4247
Fluorocarbon Polymer Deposited by Inductively Coupled Plasma Oxide **Etching**	4	L67
Ultrasmooth V-Grooves in InP by Two-Step Wet Chemical **Etching**	4	1273
Wet Chemical **Etching** for V-grooves into InP Substrates	8	2931
tion and H3PO4 Wet **Etching** of Al2O3 for Selective Patterning of Microstructures Using Ar+ Ion Implanta	1	344
Effect of Benzotriazole on the Anisotropic Electrolytic **Etching** of Copper	9	3016
Dry **Etching** of Deep Si Trenches for Released Resonators in a Cl2 Plasma	5	1767
High Temperature Reactive Ion **Etching** of Indium-Tin Oxide with HBr and CH4 Mixtures	12	4313
Selective Wet **Etching** of Lithium Gallate	5	L88
Cl2-Based Inductively Coupled Plasma **Etching** of NiFe and Related Materials	11	4025
Reactive Ion **Etching** of Silicon Containing Polynorbornenes	4	1257
Dry **Etching** of SrS Thin Films	7	2461
ex Corners Aqueous KOH **Etching** of Silicon (110). Etch Characteristics and Compensation Methods for Conv	7	2499
Etching of SiC Using Inductively Coupled Plasma	10	3609
Optical Waveguides High-Temperature Wet Chemical **Etching** of Ta2O5 in NaOH-Based Solutions for Fabricating Antiresonant Reflecting	3	1020
Effects of Annealing on Oxygen Depth Profiles and Chemical **Etching** Rates of Thermally Grown Silicon Oxides	4	1306
A Raman Study of **Etching** Silicon in Aqueous Tetramethylammonium Hydroxide	11	4040
Low Temperature Copper **Etching** Using an Inductively Coupled Plasma with Ultraviolet Light Irradiation	3	L37
Copper Dry **Etching** with Cl2/Ar Plasma Chemistry	7	2585
Ru Adatoms on Pt Using Organometallic Chemistry. Electro-oxidation of Methanol, **Ethanol**, 1,2-Ethanediol, and D-Glucose over a Pt-Ruads Surface Optimized for Oxi	12	4182
Ethanol Electro-oxidation in Ruthenium-Oxide-Coated Titanium Electrodes	11	3839
m Ta(OC2H5)5 and Oxygen Precursors **Ethanol-Addition-Enhanced**, Chemical Vapor Deposited Tantalum Oxide Films fro	9	3247
Electroactive Materials Containing Macrocyclic Pseudo-Crown **Ether** Cavities Electroformed from a Solid-State Electropolymerization Reaction	12	4110
Electrochemical Promotion of **Ethylene** Oxidation on Pt Catalyst Films Deposited on CeO2	4	1202
hemical Promotion of Pt Catalyst Electrodes Deposited on Na3Zr2Si2PO12 during **Ethylene** Oxidation Electrac	5	1469
and Entry of Hydrogen into Iron during Cathodic Charging in Alkaline Solution with **Ethylenediaminetetraacetic** Acid Evolution	4	1142
Growth and Characterization of **Eu:Y2O3** Thin-Film Phosphors on Silicon and Diamond-Coated Silicon Substrates	10	3456
Single-Electrode Peltier Heats of Li-Si Alloy Electrodes in LiCl-KCl **Eutectic Melt**	6	1986
Evaporation of Oxygen-Containing Species from Boron-Doped Silicon Melts	7	2548
al Cycling of the Nickel Hydroxide Electrode **Evidence** for Direct Gamma-NiOOH Beta-Ni(OH)2 Transitions during Electrochemic	5	1434
First-Principles **Evidence** for Stage Ordering in LixCoO2	6	2149
Nonaqueous In Situ and Ex Situ Photoluminescent Emissions from Porous Silicon. **Evidence** for Surface-Bound Emitters On the Correlation of Aqueous and	9	3284
Mass Transport in Sonovoltammetry with **Evidence** of Hydrodynamic Modulation from Ultrasound	6	1994
Surface Studies of CuxCo3-xO4 Electrodes for the Electrocatalysis of Oxygen **Evolution**	7	2320
Thermocapillary Phenomena and Bubble Coalescence during Electrolytic Gas **Evolution**	6	1848
ution with Ethylenediaminetetraacetic Acid **Evolution** and Entry of Hydrogen into Iron during Cathodic Charging in Alkaline Sol	4	1142
Spectroscopy Surface Composition of n-GaAs Cathodes during Hydrogen **Evolution** Characterized by In Situ Ultraviolet-Visible Ellipsometry and In Situ Infrar	2	447
Current **Evolution** of Electrodeposited Copper Bumps with Photoresist Angle	3	840
Shape **Evolution** of Electrodeposited Bumps with Deep Cavity	9	3007
otron X-Ray Diffraction Techniques Structural **Evolution** of LixMn2O4 in Lithium-Ion Battery Cells Measured In Situ Using Synchr	2	466
qui Hydrogen **Evolution** on Thin-Film Deposited Electrodes Prepared by a Plasma-Based Techni	9	3150
Temperature Dependence of the Oxygen **Evolution** Reaction on the Pb/PbO2 Electrode	1	70
Electrodeposited Ti2O3-Matrix Composites. II. Electrocatalysis of Oxygen **Evolution** Reaction on Ti2O3/Co3O4 Composites	2	585
Study of the Hydrogen **Evolution** Reaction on Ni-Mo-P Electrodes in Alkaline Solutions	7	2219
Chloroethylene Carbonate, a Solvent for Lithium-Ion Cells, **Evolving** CO2 during Reduction	2	L27
nd Emitters On the Correlation of Aqueous and Nonaqueous In Situ and **Ex Situ** Photoluminescent Emissions from Porous Silicon. Evidence for Surface-Bou	9	3284
C Impedance Spectroscopy **Examination** of the Role of Molybdenum in Passivation of Stainless Steels Using A	5	1462
Excellent Electrical Characteristics of Ultrafine Trench Isolation	5	1684
l. Direct Exchange of Oxygen Vacancies Mathematical Modeling of Oxygen **Exchange** and Transport in Air-Perovskite-Yttria-Stabilized Zirconia Interface Regio	4	1390
oretical Analysis of Metal Hydride Electrodes. Studies on Equilibrium Potential and **Exchange** Current Density The	12	4082
An Along-the-Channel Model for Proton **Exchange** Membrane Fuel Cells	4	1149
d Transport in Air-Perovskite-Yttria-Stabilized Zirconia Interface Regions. II. Direct **Exchange** of Oxygen Vacancies Mathematical Modeling of Oxygen Exchang	4	1390
ater Hydrogen **Exchange** Reaction on Hydrogen-Terminated (100) Si Surface during Storage in W	2	859
Modeling of Solid Oxide Heat **Exchanger** Integrated Stacks and Simulation at High Fuel Utilization	11	3995
Effects of SnO2 on the Phosphor Screen Behaviors under Low Energy Electron **Excitation**	2	648
Brilliant X-Ray Irradiation Using Synchrotron Radiation Inner-Shell Electron **Excitation** Effect on the Structural Change in Amorphous and Crystalline GaAs with	9	3063
ing Photoquenching **Excitation** Photocapacitance Study of Ionized Levels in n-Type GaAs Observed dur	8	2892
nd Operation Thermal **Expansion** of Nickel-Zirconia Anodes in Solid Oxide Fuel Cells during Fabrication a	4	1374
e Semiconductor Transistors **Experimental** Methods for Investigating the Defect Properties of SiO2 in Metal Oxid	10	3638
Si Substrate Effects of **Experimental** Parameters on Void Formation in the Growth of 3C-SiC Thin Film on	1	292
Electrodeposition of Iron-Group Metals and Binary Alloys from Sulfate Baths. I. **Experimental** Study	3	881

		Issue	Page
n Through Zinc-Nickel Alloys under Corroding Conditions. Mathematical Model and	**Experimental** Study Characterization of Hydrogen Permeatio	6	1907
aused by Large Scale Integration Processes	**Experimental** Study of the Degradation of Mechanical Strength of Silicon Wafers C	9	3160
por Deposition of Copper Comparison of	**Experiments** with a Lumped Parameter Model of the Plasma Assisted Chemical Va	2	694
roduced Cathodically Promoted Addition of Nitromethane to Aldehydes and	**Exploratory** Studies of the Mechanism of the Electrochemical Reduction of the Nitr	8	2768
Electrochemical Quartz Crystal Microbalance Studies of Poly(ortho-toluidine) Films	**Exposed** to Aqueous Perchloric Acid Solutions	8	2640
Rotating Hemispherical Electrode. Accurate	**Expressions** for the Limiting Current and the Convective Warburg Impedance	12	4189
	Extension of Dose Window for Low-Dose Separation by Implanted Oxygen	5	1735
Large Hysteresis during Lithium Insertion into and	**Extraction** from High-Capacity Disordered Carbons	2	478

— F —

Effects of CoSi2 on p+ Polysilicon Gates	**Fabricated** by BF2+ Implantation into CoSi/Amorphous Si Bilayers	10	3590
High-Temperature Wet Chemical Etching of Ta2O5 in NaOH-Based Solutions for	**Fabricating** Antiresonant Reflecting Optical Waveguides	3	1020
annel Glass	**Fabrication** and Characterization of Uniform Metallic Nanostructures Using Nanoch	1	247
Thermal Expansion of Nickel-Zirconia Anodes in Solid Oxide Fuel Cells during	**Fabrication** and Operation	4	1374
al Vapor Deposition	**Fabrication** of Ag/Y2O3-Stabilized ZrO2 Composite Films by Metallorganic Chemic	1	L4
A Low Temperature Silicon-on-Insulator	**Fabrication** Process Using Si MBE on Double-Layer Porous Silicon	5	1668
ination of Chemical Species and Their Composition in Ni-Mo Alloy Plating Baths by	**Factor** Analysis of Visible Absorption Spectra Determ	2	523
Pitting Corrosion of Metals. A Review of the Critical	**Factors**	6	2186
at High Temperatures	**Factors** Affecting the Stabilization of Mn Spinel Capacity upon Storing and Cycling	8	2726
Capacity	**Fade** Mechanisms and Side Reactions in Lithium-Ion Batteries	10	3647
An Investigation of Capacity	**Fading** of Manganese Spinels Stored at Elevated Temperature	11	3704
ductivity of Lithium Salts in Nonaqueous Solutions The Synthesis of a New	**Family** of Boron-Based Anion Receptors and the Study of Their Effect on Ion Pair D	8	2813
Thickness Measurements of Epitaxial Layers of Double Epitaxial Silicon Wafers by	**Far-Infrared** Reflection	5	1720
lectrode Potential An Investigation of	**Faradaic** Admittance for Electrode Processes Involving n State Variables Besides E	2	517
Power Spectral Density Applied to Corrosion Studies. Maximum Entropy Method or	**Fast** Fourier Transform? Analysis of Electrochemical Noise by	8	2780
hiophene)	**Fast** Optical Spectroscopy of the Electrochemical Doping of Poly(3,4-ethylenedioxyt	11	3810
ements	**Fast-Feedback** Iron Contamination Monitoring Using Surface Photovoltage Measur	2	701
Oxygen Incorporation during the Electrodeposition of Ni,	**Fe**, and Ni-Fe Alloys	11	3699
Electrochemical Study of NO Conversion from	**Fe(II)-EDTA-NO** Complex on Pt Electrodes	1	53
of Nitrogen-Containing Precursors on the Electrocatalytic Activity of Heat-Treated	**Fe(OH)2** on Carbon Black for O2 Reduction Influence	7	2411
Speed Print Bands. II. An Electrochemical Process for Microfinishing of Hardened	**Fe-13Cr** Stainless Steel Surface Finishing of High	9	3052
copy and Scanning Tunneling Microscopy Study of Passive Films Formed on (100)	**Fe-18Cr-13Ni** Single-Crystal Surfaces X-Ray Photoelectron Spectros	3	909
In Situ Determination of the Composition of Surface Films Formed on	**Fe-Cr** Alloys	6	1922
sistances Between Fe2O3-TiO2 Artificial Passivation Film and Passivation Film on	**Fe-Ti** Alloy Comparison of Corrosion Re	8	2818
Spectroscopy and Ion Scattering Spectroscopy The Passivity of	**Fe/Si** Alloys in Aqueous Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron	3	834
Electrodeposition of Amorphous	**Fe2O3** Films by Reduction of Iron Perchlorate in Acetonitrile	2	385
Comparison of Corrosion Resistances Between	**Fe2O3-TiO2** Artificial Passivation Film and Passivation Film on Fe-Ti Alloy	8	2818
Anomalous Current Rise and Electrochemical Reduction in	**Fe2O3-TiO2** Ceramics	5	1592
Microstructural	**Features** of alpha-MnO2 Electrodes for Lithium Batteries	2	582
ration of Monodisperse Particles Characteristic	**Features** of Size-Selective Photoetching of CdS Nanoparticles as a Means of Prepa	6	1964
Design of Injection	**Feed** Multiwafer Low-Pressure Chemical Vapor Deposition Reactors	7	2494
n Aqueous Solution Pd-Loaded Carbon	**Felt** as the Cathode for Selective Dechlorination of 2,4-Dichlorophenoxyacetic Acid i	11	3844
Electrochemical Deposition of Prussian Blue from a Single	**Ferricyanide** Solution	7	2231
xides Formed during High Temperature Oxidation on the Corrosion Resistance of	**Ferritic** Chromium Steel The Effect of Nonstoichiometry of Surface O	7	2236
High Temperature Barrier Electrode Technology for High Density	**Ferroelectric** Memories with Stacked Capacitor Structure	7	2563
Preparation of a Gold-Sputtered Optical	**Fiber** as a Microelectrode for Electrochemical Microscopy	6	2011
Optimum Conditions for Composites	**Fiber** Coating by Chemical Vapor Infiltration	4	1263
Optimization of the Dimensions of Vapor-Grown Carbon	**Fiber** for Use as Negative Electrodes in Lithium-Ion Rechargeable Cells	1	210
on	**Fibrous** and Porous Microstructure Formation in 6H-SiC by Anodization in HF Soluti	7	2456
Reactivation of Passivated Iron Electrodes in a Magnetic	**Field**	7	2214
mpositions for Encapsulation of Refractory Metal Gate GaAs Metal-Semiconductor	**Field** Effect Transistor Optimization of SiON Film Co	1	323
Magnetic	**Field** Effects on Nickel Electrodeposition	2	401
levated Source/Drain Technology for Deep Submicron Metal Oxide Semiconductor	**Field** Effect Transistors Parasitic Resistance Considerations of Using E	6	2131
emical Study Magnetic	**Field** Effects on Nickel Electrodeposition. II. A Steady-State and Dynamic Electroch	12	4135
Electron	**Field** Emission from Chemical Vapor Deposited Diamond Films	7	2572
d Oxidation Conditions	**Field** Oxide Thinning Behavior in Local Oxidation of Silicon Process under Enhance	5	1664
n of a Semi-insulating Amorphous Hydrogenated Silicon Nitride Film as a Resistive	**Field** Shield and Its Reliability Applicatio	12	4296
A New Voltage Transient Technique for Deep-Level Studies in Depletion-Mode	**Field-Effect** Transistors	9	3258
rostructural Changes in a Polycrystalline, Semiconducting Oxide under DC Electric	**Fields** Mic	12	4243
f the Structural Change Due to Heat-Treatment in High Resistivity Electroless NiPC	**Film** Study o	7	2419
the Superior Water Blocking Ability of Electron Cyclotron Resonance-Plasma SiO2	**Film** Analysis of	4	1338
perties and Barrier Effectiveness of Chemically Vapor Deposited Amorphous WSix	**Film** Thin-Film Pro	12	4206
The Pitting Behavior of Iron-Chromium Thin	**Film** Alloys in Hydrochloric Acid	5	1566
Electrochemical Formation of Polypyrrole/SiO2 Composite	**Film** and Its Application to Organic Electroluminescence Devices	4	1126
Comparison of Corrosion Resistances Between Fe2O3-TiO2 Artificial Passivation	**Film** and Passivation Film on Fe-Ti Alloy	8	2818
hanism of Electroless Copper Film Formed on Ceramic Substrates Using ZnO Thin	**Film** as an Intermediate Layer Adhesion Mec	5	1430
Application of a Semi-insulating Amorphous Hydrogenated Silicon Nitride	**Film** as a Resistive Field Shield and Its Reliability	12	4296
Micromachining of Tin Oxide	**Film** by Electrochemical Reduction Process	9	3067
Ultrathin Ta2O5	**Film** Capacitor with Ru Bottom Electrode	8	2961
Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor Deposition and	**Film** Characterization Selective Titanium Silicide	11	3941
ductor Field Effect Transistor Optimization of SiON	**Film** Compositions for Encapsulation of Refractory Metal Gate GaAs Metal-Semicon	1	323
Work Function and Catalytic Activity Measurements of an IrO2	**Film** Deposited on YSZ Subjected to In Situ Electrochemical Promotion	3	905
SiOF	**Film** Deposition Using FSi(OC2H5)3 Gas in a Helicon Plasma Source	7	2576
r Deposition Microcrystalline Silicon	**Film** Deposition from H2-He-SiH4 Using Remote Plasma Enhanced Chemical Vapo	8	2900
Stability and Photoresponse of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin	**Film** Electrodes during Water Splitting Reactions	1	89
In Situ Pulsed Deposition Studies of Ce(tmhd)4 on SrS Surfaces for Thin	**Film** Electroluminescent Flat Panel Display Applications	12	4271
Adhesion Mechanism of Electroless Copper	**Film** Formed on Ceramic Substrates Using ZnO Thin Film as an Intermediate Layer	5	1430
Deposition Mechanism of Amorphous Silica	**Film** Formation from Tetraethoxysilane in Atomic Oxygen-Induced Chemical Vapor	8	2866
n Processes Mechanisms of	**Film** Growth Rate Enhancement in Anodic and Cathodic Corona-Discharge Oxidatio	8	2944
Materials Issues with Thin	**Film** Hydrogen Silsesquioxane Low K Dielectrics	11	4019
A Neutron Reflectivity Study of[Os(bipy)2(PVP)10Cl]+ Polymer	**Film** Modified Electrodes: Effect of pH and Counterion	5	1454
Protection of Copper Corrosion by an Ultrathin Two-Dimensional Polymer	**Film** of Alkanethiol Monolayer	6	1856
re and Plasma-Enhanced Chemical Vapor Deposited Tetraethylorthosilicate Oxide	**Film** on a Boron Implant Profile The Effect of Low-Pressu	5	1677
sion Resistances Between Fe2O3-TiO2 Artificial Passivation Film and Passivation	**Film** on Fe-Ti Alloy Comparison of Corro	8	2818
f the Semiconductive Properties of Sputter-Deposited Iron Oxides with the Passive	**Film** on Iron Comparison o	2	378
Oxidation Behavior of a Ni-La2O3 Codeposited	**Film** on Nickel	2	389
ffects of Experimental Parameters on Void Formation in the Growth of 3C-SiC Thin	**Film** on Si Substrate E	1	292
ures Surface Cleaning and Carbonaceous	**Film** Removal Using High Pressure, High Temperature Water, and Water/CO2 Mixt	1	284
O2-Plasma Passivation Effects on Polysilicon Thin	**Film** Transistors Using Ion Plating Method	1	252
el and Characterization of Process-Dependent Traps in Polycrystalline Silicon Thin	**Film** Transistors A New Charge Pumping Mod	8	2883
itting Corrosion Resistance of Type 304 Stainless Steel by Modification of Passive	**Film** with Ultraviolet Light Irradiation Improvement of P	5	L79
al Vapor Deposition Preparation of a-SiNx Thin	**Film** with Low Hydrogen Content by Inductively Coupled Plasma Enhanced Chemic	2	652
Kinetics of Vapor-Phase Electrolytic Deposition of Yttria-Stabilized Zirconia Thin	**Films**	12	4277
Optical Gap and Coloration Efficiency Spectrum in Electrochromic Tungsten Oxide	**Films** Deposition Temperature Dependence of	5	1729
Surface States and Photovoltaic Effects in CdSe Quantum Dot	**Films**	5	1748
Substrate Effects on Hardness and Polishing of SiO2 Thin	**Films**	5	1790
of Radio Frequency Magnetron Sputter Deposited Zirconium Titanate-Based Thin	**Films** Dielectric Properties	1	358

		Issue	Page
Gradient Control of Magnetic Properties in Electroless-Deposited CoNiP Thin	**Films**	1	134
during the Low-Pressure Chemical Vapor Deposition of Borophosphosilicate Glass	**Films**	6	2051
On the Kinetics of Growth of Anodic Oxide	**Films**	3	898
ffect of Processing Conditions on Crystal Orientation and Structure in ZnS:Mn Thin	**Films**	1	226
uction on a Mediated Electrode with Conducting Polymer and Inorganic Conductor	**Films**	11	3801
A New Process for Depositing Tungsten Nitride Thin	**Films**	2	L21
Modeling Plasma-Assisted Deposition of Diamond-Like Carbon	**Films**	12	4332
Chemically Deposited Sb2S3 and Sb2S3-CuS Thin	**Films**	6	2113
apid Photothermal Annealing of Sputtered Lead Lanthanum Zirconia Titanate Thin	**Films**	12	4317
Boron Diffusion in Compressively Stressed Float Zone-Silicon Induced by Si3N4	**Films**	1	258
From ZnO Colloids to Nanocrystalline Highly Conductive	**Films**	10	3632
Isotopic Effects in Cation-Injected Electrochromic	**Films**	3	1023
Electron Field Emission from Chemical Vapor Deposited Diamond	**Films**	7	2572
Cyclic Voltammetry of Pulsed Laser Deposited LixMn2O4 Thin	**Films**	9	2975
ion Mechanism and Temperature-Dependent Current-Voltage in (Ba, Sr)TiO3 Thin	**Films**	8	2853
y of Microstructure, Morphology, and Stoichiometry of Radio-Frequency Sputtered	**Films**	1	235
tic Oxidation of Methanol at Finely Dispersed Platinum Nanoparticles in Polypyrrole	**Films**	1	124
In Situ Ellipsometric Study of the Electroprecipitation of Nickel Hydroxide	**Films**	4	1174
Dry Etching of SrS Thin	**Films**	7	2461
Dry Etch Patterning of LaCaMnO3 and SmCo Thin	**Films**	7	2512
thesis and Hydrogen Absorption Properties of Nanostructured Palladium-Iron Alloy	**Films**	10	3339
y Sputtered Films	**Films**	1	235
nese Nickel Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of Thin	**Films**	12	4148
cterization	**Films**	10	3507
sed Mechanism	**Films**	10	3513
e of Deposition Parameters on the Texture of Chemical Vapor Deposited Tungsten	**Films**	9	3235
Preparation of Indium Hydroxy Sulfide Inx(OH)ySz Thin	**Films**	8	2775
Fabrication of Ag/Y2O3-Stabilized ZrO2 Composite	**Films**	1	L4
Effect of O2 Addition on the Deposition of Pt Thin	**Films**	3	1066
Structural Investigation of the Bias-Enhanced Nucleation and Growth of Diamond	**Films**	6	2095
Lowering of Leakage Current Density of (Ba,Sr)TiO3 Thin	**Films**	11	3884
Electrodeposition of Amorphous Fe2O3	**Films**	2	385
on the Electrode Properties	**Films**	6	1999
Direct Electron Transfer for Hemoglobin in Surfactant	**Films**	2	533
Diode-Like Property of Prussian Blue	**Films**	11	3788
Radio-Frequency Reactively Sputtered VOx Thin	**Films**	2	706
Electrochemical Promotion of Ethylene Oxidation on Pt Catalyst	**Films**	4	1202
Temperature Dependence of the Electrical Properties of SrBi2Ta2O9 Thin	**Films**	4	1330
Irregular Surface and Porous Structure of SiO2	**Films**	7	2589
and O3	**Films**	8	2847
Properties of a-SiOx:H Thin	**Films**	8	2861
Comparison of Oxidation Rates for a-Si1-xCx:H	**Films**	9	3271
In Situ X-Ray Absorption Spectroscopic Study of Electrodeposited Nickel Oxide	**Films**	4	1121
Electrochemical Quartz Crystal Microbalance Studies of Poly(ortho-toluidine)	**Films**	8	2640
Low Pressure Chemically Vapor Deposited WO3 Thin	**Films**	4	1346
Amorphous Nb/Fe-Oxide Ion-Storage	**Films**	5	1607
Vapor Deposition	**Films**	7	2508
Formation of Catalytic Pd on ZnO Thin	**Films**	10	3378
Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study of Passive	**Films**	3	909
In Situ Determination of the Composition of Surface	**Films**	6	1922
Growth Kinetics and Morphology of Porous Anodic Alumina	**Films**	8	2899
Direct Observation of Anodic	**Films**	9	3011
System	**Films**	10	3594
Semiconducting Properties of Passive	**Films**	11	3821
ral, Spectroscopic, and Electrochemical Characterization of Boron-Doped Diamond	**Films**	5	L85
anistic Study of Cathodic Electrodeposition of Zinc Oxide and Zinc Hydroxychloride	**Films**	3	864
Electrochemical Studies of Carbon	**Films**	7	2314
Atomic Layer Epitaxy Growth of TiN Thin	**Films**	8	2914
Ethanol-Addition-Enhanced, Chemical Vapor Deposited Tantalum Oxide	**Films**	9	3247
ion, and Microstructure of Low-Pressure Chemical Vapor Deposited Silicon Dioxide	**Films**	4	1310
Time-Dependent Electrochromism of Nanocrystalline TiO2	**Films**	6	1982
ductor Applications	**Films**	5	1679
on Sputtering	**Films**	4	1303
Formation of Thin	**Films**	5	1442
Charge-Discharge Properties of Composite	**Films**	8	2707
Acid-Base Properties of Passive	**Films**	3	823
n Near Edge Structure Study	**Films**	3	829
Novel Method for the Formation of Large-Grained, Silicon Thin	**Films**	11	3963
ilanes and Alkanediol	**Films**	8	2786
Electrical Characterization of Thin SiO2	**Films**	8	2937
The Nature of Oxide	**Films**	8	2718
Boron in Polycrystalline SixGe1-x	**Films**	7	2530
Decrease of Recombination Losses in Bicomponent WO3/TiO2	**Films**	11	3981
Magnetoresistance Effect in Co-Ag and Co-Cu Alloy	**Films**	2	585
Relationship Between Structural and Optical Properties in Polycrystalline Silicon	**Films**	10	3615
Electrochemical Behavior of Cr2O3/Fe2O3 Artificial Passive	**Films**	3	791
Pitting in Aluminum Thin	**Films**	8	2834
Deposition of Silica	**Films**	6	1812
The Electrocatalytic Oxidation of Methanol at	**Finely**	1	124
inishing and Character Rounding of Print Bands	**Finishing**	9	3047
ing of Hardened Fe-13Cr Stainless Steel	**Finishing**	9	3052
s	**Finite**	6	2081
a Rotating Disk Electrode below the Mass-Transfer-Limited Current. Correction for	**Finite**	6	1940
An Ionic Conductivity and Spectroscopic Study of Ionic Transport Mechanism in	**Fire-Retardant**	3	881
Mechanism of Particle Growth of a BaMgAl10O17:Eu2+ Phosphor by	**Firing**	11	3898
Graphites for Lithium-Ion Cells: The Correlation of the	**First-Cycle**	2	428
	First-Principles	6	2149
Current Efficiency of an Ion-Selective Membrane: Effect of	**Fixed**	4	1088
Deposition Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electroluminescent	**Flat**	12	4271
Boron Diffusion in Compressively Stressed	**Float**	1	258
Dielectric Reliability	**Floating**	4	1351
Heat Transfer, Fluid	**Flow,**	11	3926
	Flow	2	560
lated Alloys	**Flow-Induced**	8	2827
dio-Frequency Reactively Sputtered VOx Thin Films Deposited at Different Oxygen	**Flows**	2	706
Heat Transfer,	**Fluid**	11	3926
Detection of Localized Corrosion of Aluminum Alloys Using	**Fluorescence**	5	1671
Solar Cells Coated with	**Fluorescent**	8	2955

Investigation of Particle Generation
The E
Mechanistic Studies of CO2 Red
A Study of R
Conduct
Toward Efficient Electrochromic NiOx Films. A Stud
The Electrocataly
Pulsed Electrodeposition Syn
Films. A Study of Microstructure, Morphology, and Stoichiometry of Radio-Frequenc
and Bulk Phases
Lithium Manga
as Oxygen Reduction Electrocatalysts. I. Physical and Electrochemical Chara
as Oxygen Reduction Electrocatalysts. II. Electrochemical Stability and Propo
by a WF6/H2/Ar Gas Source
Influenc
by Chemical Bath Deposition
by Metallorganic Chemical Vapor Deposition
by Metallorganic Chemical Vapor Deposition
by Microwave Plasma Chemical Vapor Deposition
by Pulse Injection Deposition
by Reduction of Iron Perchlorate in Acetonitrile
by Vapor-Phase Processes and Their Electrochemical Properties. II. Effects o
Cast on Carbon Electrodes
Containing Concentration Gradients in Serial Mixed Valent Layers
Deposited at Different Oxygen Flows
Deposited on CeO2
Deposited by Radio-Frequency Magnetron Sputtering
Deposited at Low Temperature and Low Pressure
Deposited by Atmospheric Pressure Chemical Vapor Deposition Using Si(OC
Deposited from Hydrogen Silsesquioxane Resins
Deposited from Pulsed and Continuous Wave RF Plasmas
during Redox Reactions
Exposed to Aqueous Perchloric Acid Solutions
for Integrated Gas Sensor Applications
for Counter Electrode Applications in Electrochromic Devices
for Solar Cell Application Obtained with 55 kHz Plasma Enhanced Chemical
for Electroless Metal Deposition
Formed on (100) Fe-18Cr-13Ni Single-Crystal Surfaces
X-Ray
Formed on Fe-Cr Alloys
Formed Using Phosphoric Acid
Formed on Gallium Phosphide in Aqueous Tungstate Electrolyte
Formed by Electrochemical Atomic Layer Epitaxy in an Automated Deposition
Formed on Stainless Steels. Influence of the Alloying Elements
from Different Provenances
Structu
from Oxygenated Aqueous Zinc Chloride Solutions
Mech
from Pyrolyzed Photoresist
from TiI4 and NH3
from Ta(OC2H5)5 and Oxygen Precursors
Grown from TEOS/N2O Mixtures
Thermodynamic Study, Composit
in Propylene Carbonate Solution of LiClO4
Manufactured in Reduced Pressure Furnace for Ultralarge Scale Integration
of Amorphous Germanium-Tin Alloys Prepared by Radio-Frequency Magnetr
of CdTe, CdSe, and CdS by Electrochemical Atomic Layer Epitaxy
of Polyaniline and Crystalline V2O5 Particles
on Aluminum. I. A Photoelectrochemical Study
on Aluminum. II. An X-Ray Photoelectron Spectroscopy and X-Ray Absorptio
on Amorphous Substrates
on Copper by Multistep Modification of an Alkanethiol Monolayer with Chloros
on Silicon Created by Anodic Oxygen Corona Discharge Processing
on Tungsten in Acidic and Alkaline Solutions
. Phase Diagram and Solid Solubility
Photosensitized with Cresyl Violet and Thionine
Prepared by Electrodeposition
Prepared at Low Temperature by Plasma-Enhanced Chemical Vapor Deposit
Studied by In Situ XANES
. Supersaturation and Effects of Dichromate Ions
Using Electrochemical Procedures
Dispersed Platinum Nanoparticles in Polypyrrole Films
of High Speed Print Bands. I. A Prototype Tool for Electrochemical Microf
of High Speed Print Bands. II. An Electrochemical Process for Microfinish
Element Study on the Grain Boundary Impedance of Different Microstructure
Schmidt Number and Determination of Surface Charge Distribution
C
Polyacrylonitrile-Based Gel Electrolytes for Li Polymer Batteries
with AlF3
Charge Loss with the Brunauer-Emmett-Teller Surface Area
Evidence for Stage Ordering in LixCoO2
Charge Distribution
Panel Display Applications
In Situ Pulsed
Zone-Silicon Induced by Si3N4 Films
Gate Dopant Concentration and Interpoly Dielectric Processing on Tunnel
, and Interface Shapes in Zone Melting Processing with Induction Heating
Modulation as a Means of Studying Leveling Agents
Compositional Structure in Electrodeposited NiFe Composition-Modu
Ra
Flow, and Interface Shapes in Zone Melting Processing with Induction Heating
Microscopy
Coloring Agent

		Issue	Page
In Situ Infrared Study of the Oscillating Anodic Dissolution of Silicon in	**Fluoride** Electrolytes	3	964
rofiles and Performance Curves in a Parallel-Plate Reactor for the Electrochemical	**Fluorination** of Hydrocarbons P	5	1578
Steady-State Modeling of a Parallel-Plate Electrochemical	**Fluorination** Reactor	10	3521
of Boron Penetration Through Thin Gate Dielectrics Including Role of Nitrogen and	**Fluorine** Investigation	7	2545
Reliability Improvement of AlInAs/GaInAs High Electron Mobility Transistors by	**Fluorine** Incorporation Control	8	2951
anced Chemical Vapor Deposition Effect of	**Fluorine** on Surface Morphology in Selective Epitaxial TiSi2 Growth by Plasma-Enh	5	1640
undaries The Effects of	**Fluorine** Passivation Using SF6 Plasma on the Corrosion of Al(Cu 1%) at Grain Bo	3	1044
	Fluorocarbon Polymer Deposited by Inductively Coupled Plasma Oxide Etching	4	L67
ion of Chromate Conversion Coating on Aluminum 2024-T3 Investigated by Atomic	**Force** Microscopy Nucleat	1	L11
rate Interface Scanning	**Force** Microscopy Investigation of Surface Forces at the Tungsten Oxide/Lithium Bo	2	669
Characterization of AA2024-T3 by Scanning Kelvin Probe	**Force** Microscopy	7	2285
tudy of AA2024-T3 by Scanning Kelvin Probe Force Microscopy and In Situ Atomic	**Force** Microscopy Scratching Corrosion S	7	2295
Corrosion Study of AA2024-T3 by Scanning Kelvin Probe	**Force** Microscopy and In Situ Atomic Force Microscopy Scratching	7	2295
Sequential Observation of Electroless Copper Deposition via Noncontact Atomic	**Force** Microscopy	9	3301
Photocorrosion of Coupled CdS/CdSe Photoelectrodes Coated with ZnO. Atomic	**Force** Microscopy and X-Ray Diffraction Studies	10	3535
Scanning Force Microscopy Investigation of Surface	**Forces** at the Tungsten Oxide/Lithium Borate Interface	2	669
Effect of Anode Materials on NF3	**Formation**	4	1160
Ultraclean Si/Si Interface	**Formation** by Surface Preparation and Direct Bonding in Ultrahigh Vacuum	5	1645
osition Mechanism of Amorphous Silica Film	**Formation** from Tetraethoxysilane in Atomic Oxygen-Induced Chemical Vapor Dep	8	2866
Fibrous and Porous Microstructure	**Formation** in 6H-SiC by Anodization in HF Solution	7	2456
An Analysis of the Binder	**Formation** in Electrophoretic Deposition	4	1253
The Impact of the Operation Mode on Pattern	**Formation** in Electrode Reactions. From Potentiostatic to Galvanostatic Control	7	2404
Macropore	**Formation** in Highly Resistive p-Type Crystalline Silicon	8	2958
Effects of Experimental Parameters on Void	**Formation** in the Growth of 3C-SiC Thin Film on Si Substrate	1	292
Iron Passivity in Borate Buffer.	**Formation** of a Deposit Layer and Its Influence on the Semiconducting Properties	2	609
Chemical	**Formation** of a Solid Electrolyte Interface on the Carbon Electrode of a Li-Ion Cell	5	1506
	Formation of Catalytic Pd on ZnO Thin Films for Electroless Metal Deposition	10	3378
Influence of Residual Point Defect Supersaturation on the	**Formation** of Grown-In Oxide Precipitate Nuclei in CZ-Si	5	L75
trode	**Formation** of High Conductivity WSix Layer and Its Characterization as a Gate Elec	9	3228
Self-Organized	**Formation** of Hexagonal Pore Structures in Anodic Alumina	11	3735
Novel Method for the	**Formation** of Large-Grained, Silicon Thin Films on Amorphous Substrates	11	3963
ic Behavior of Various Phases Appearing in the CeZrO4-CeZrO3.5 System and the	**Formation** of Metastable Solid Solutions Thermodynam	4	1406
Kinetic Study of the	**Formation** of Oxygen Vacancy on Lanthanum Manganite Electrodes	2	373
oluminescence Devices Electrochemical	**Formation** of Polypyrrole/SiO2 Composite Film and Its Application to Organic Electr	4	1126
A Contactless Method for the Directed	**Formation** of Submicrometer Copper Wires	3	L45
Epitaxy	**Formation** of Thin Films of CdTe, CdSe, and CdS by Electrochemical Atomic Layer	5	1442
por Deposition from TiCl4-NH3-H2 Kinetics of the	**Formation** of Titanium Nitride Layers by Rapid Thermal Low Pressure Chemical Va	5	1672
W-Clad Layer	**Formation** on Heavily Doped p+-Si by Selective Chemical Vapor Deposition	12	4203
Potentiostatic Oxide	**Formation** on Lead Selenide Single Crystals in Alkaline Solutions	8	2806
In Situ Infrared Reflection Absorption Spectroscopy Studies of Sulfuric Acid	**Formation** on Platinum and Palladium Surfaces	2	487
hemical Vapor Deposition and Their Effects on the Oxidation of a Ni-Base Chromia	**Former** Alumina Coatings Applied via Combustion C	11	3986
r Spectral Density Applied to Corrosion Studies. Maximum Entropy Method or Fast	**Fourier** Transform? Analysis of Electrochemical Noise by Powe	8	2780
Calculation of Gas Spectra for Quantitative	**Fourier** Transform Infrared Spectroscopy of Chemical Vapor Deposition	9	3212
Todorokite as a Li Insertion Cathode. Comparison of a Large Tunnel	**Framework** "MnO2" Structure with Its Related Layered Structures	11	3746
hing A Novel Statistical Metrology	**Framework** for Identifying Sources of Variation in Oxide Chemical Mechanical Polis	3	1052
Network Polymer Electrolytes with	**Free** Chain Ends as Internal Plasticizer	5	1521
Dielectric Properties of Radio	**Frequency** Magnetron Sputter Depcsited Zirconium Titanate-Based Thin Films	1	358
Estimation of	**Front** Velocity in Electrodeposition onto Highly Resistive Substrates	1	165
The Phase-Shift Method for the	**Frumkin** Adsorption Isotherms at the Pd/H2SO4 and KOH Solution Interfaces	11	3794
SiOF Film Deposition Using	**FSi(OC2H5)3** Gas in a Helicon Plasma Source	7	2576
Low Overvoltage Mechanism of High Ionic Conducting Cathode for Solid Oxide	**Fuel** Cell	3	L35
Agglomerate Model for DC and AC Response of Phosphoric Acid	**Fuel** Cell Cathode	1	45
Comparison of Power Densities and Chemical Potential Variation in Solid Oxide	**Fuel** Cells with Multilayer and Single-Layer Oxide Electrolytes	1	99
Engineering of Solid Oxide	**Fuel** Cells with Ceria-Based Electrolytes	2	414
Anodes High-Performance Electrode for Medium-Temperature Solid Oxide	**Fuel** Cells. Effects of Composition and Microstructures on Performance of Ceria-Ba	2	615
Behavior of Raipore Radiation-Grafted Polymer Membranes in H2/O2	**Fuel** Cells	3	780
PtRu Alloy Colloids as Precursors for	**Fuel** Cell Catalysts. A Combined XPS, AFM, HRTEM, and RDE Study	3	925
Analysis of Fuel Utilization Performance of Round Substrate, Planar Solid Oxide	**Fuel** Cells	3	931
Stabilized Zirconia Solid Oxide	**Fuel** Cell with Composite Electrolyte Consisting of Samaria-Doped Ceria and Yttria-	3	1004
Suppression of Gas Crossover in Pt-Dispersed Polymer Electrolyte Membranes for	**Fuel** Cells Analyses of Self-Humidification and	4	1137
An Along-the-Channel Model for Proton Exchange Membrane	**Fuel** Cells	4	1149
Thermal Expansion of Nickel-Zirconia Anodes in Solid Oxide	**Fuel** Cells during Fabrication and Operation	4	1374
tion of Hydrogen Sulfide in an Intermediate-Temperature Ceria-Based Solid Oxide	**Fuel** Cell Utiliza	5	1449
Model of Cathode Reaction Resistance in Molten Carbonate	**Fuel** Cells	5	1511
Effect of Mixed-Conducting Interfacial Layers on Solid Oxide	**Fuel** Cell Anode Performance	5	1696
Conversion Impedance: A Test Geometry Effect in Characterization of Solid Oxide	**Fuel** Cell Anodes Gas	7	2431
Characterization of a 100 cm2 Class Molten Carbonate	**Fuel** Cell with Current Interruption	8	2747
Pt Inclusion Compounds as Oxygen Reduction Catalysts in Polymer-Electrolyte	**Fuel** Cells	9	2985
a New Cathode Material Intermediate Temperature Solid Oxide	**Fuel** Cells Using a New LaGaO3 Based Oxide Ion Conductor. I. Doped SmCoO3 as	9	3177
i-Doped LaCoO3 and LaFeO3 Perovskites. New Cathode Materials for Solid-Oxide	**Fuel** Cells Sr- and N	9	3220
Micro-Macroscopic Coupled Modeling of Batteries and	**Fuel** Cells. I. Model Development	10	3407
Micro-Macroscopic Coupled Modeling of Batteries and	**Fuel** Cells. II. Application to Nickel-Cadmium and Nickel-Metal Hydride Cells	10	3418
Electrogeneration of Hydroperoxide Ion Using an Alkaline	**Fuel** Cell	10	3444
Gradual Internal Methane Reforming in Intermediate-Temperature Solid-Oxide	**Fuel** Cells	10	3487
paration Process of Very-Low-Platinum-Loading Electrodes for Polymer Electrolyte	**Fuel** Cells Improved Pre	11	3708
A Methanol Sensor for Portable Direct Methanol	**Fuel** Cells	11	3783
Analysis of	**Fuel** Utilization Performance of Round Substrate, Planar Solid Oxide Fuel Cells	3	931
Modeling of Solid Oxide Heat Exchanger Integrated Stacks and Simulation at High	**Fuel** Utilization	11	3995
Mass Transport in Gas-Diffusion Electrodes: A Diagnostic Tool for	**Fuel-Cell** Cathodes	1	5
ubjected to In Situ Electrochemical Promotion Work	**Function** and Catalytic Activity Measurements of an IrO2 Film Deposited on YSZ S	3	905
n of High Quality Nitrided Gate Dielectric Films Manufactured in Reduced Pressure	**Furnace** for Ultralarge Scale Integration Complementary Metal Oxide Semiconducto	5	1679
ilicon The Impact of Graphite	**Furnace** Parts on Radial Impurity Distribution in Czochralski-Grown Single-Crystal S	2	621
Present and	**Future** Role of Chemical Mechanical Polishing in Wafer Bonding	6	2198

— G —

Improved	**GaAs** Bonding Process for Quasi-Phase-Matched Second Harmonic Generation	1	366
The Electrochemical Behavior of p-Type (100)	**GaAs** in Copper Sulfate Solution. Influence of Surface Conditions	9	3075
ptimization of SiON Film Compositions for Encapsulation of Refractory Metal Gate	**GaAs** Metal-Semiconductor Field Effect Transistor O	1	323
Excitation Photocapacitance Study of Ionized Levels in n-Type	**GaAs** Observed during Photoquenching	8	2892
Hydrophobicity of a Hydrochloric-Treated	**GaAs** Surface Analyzed by Contact Angle Measurement	4	1381
ll Electron Excitation Effect on the Structural Change in Amorphous and Crystalline	**GaAs** with Brilliant X-Ray Irradiation Using Synchrotron Radiation Inner-She	9	3063
Diffusion Coefficients of Cerium and	**Gadolinium** in Molten LiCl-KCl	1	84
Selective Wet Etching of Lithium	**Gallate**	5	L88
Kinetic Study of the Oxidation of	**Gallium** Nitride in Dry Air	2	629
Direct Observation of Anodic Films Formed on	**Gallium** Phosphide in Aqueous Tungstate Electrolyte	9	3011
peration Mode on Pattern Formation in Electrode Reactions. From Potentiostatic to	**Galvanostatic** Control The Impact of the O	7	2404
Linear Stability Analysis of Unsteady	**Galvanostatic** Electrodeposition in the Two-Dimensional Diffusion-Limited Regime	6	2016

		Issue	Page
itrary Electronic Transport Numbers. Application of Impedance, Potentiostatic, and	**Galvanostatic** Methods to Ag1.92Te Determination of Chemical Diffusion C	6	2179
Disk Electrode Modeling the	**Galvanostatic** Pulse and Pulse Reverse Plating of Nickel-Iron Alloys on a Rotating	6	2033
A Theoretical Analysis of the Effect of Inert Blocking Agent on the	**Galvanostatic** Pulse Plating	11	3851
kel Hydroxide Electrode Evidence for Direct	**Gamma-NiOOH** Beta-Ni(OH)2 Transitions during Electrochemical Cycling of the Nic	5	1434
es Characteristics and Effects of	**gamma-NiOOH** on Cell Performance and a Method to Quantify It in Nickel Electrod	1	116
Deposition Temperature Dependence of Optical	**Gap** and Coloration Efficiency Spectrum in Electrochromic Tungsten Oxide Films	5	1729
Chemical Vapor Deposition Using Dimethylaluminum Hydride Without H2 Carrier	**Gas** Very Low Pressure Selective Aluminum	12	4327
Room Temperature Operating Solid-State Sensor for Chlorine	**Gas**	7	2445
Effect of	**Gas** Addition on Ozone Ashing	12	4323
ide Fuel Cell Anodes	**Gas** Conversion Impedance: A Test Geometry Effect in Characterization of Solid Ox	7	2431
Analyses of Self-Humidification and Suppression of	**Gas** Crossover in Pt-Dispersed Polymer Electrolyte Membranes for Fuel Cells	4	1137
Thermocapillary Phenomena and Bubble Coalescence during Electrolytic	**Gas** Evolution	6	1848
Highly Purified Silane	**Gas** for Advanced Silicon Semiconductor Devices	10	3560
SiOF Film Deposition Using FSi(OC2H5)3	**Gas** in a Helicon Plasma Source	7	2576
y-State and Transient Behavior of Thick-Film Tin Oxide Sensors in the Presence of	**Gas** Mixtures Diesel	5	1772
The Corrosion of Mo-Al Alloys in a H2/H2S/H2O	**Gas** Mixture at 800-1000 C	7	2265
Reaction Mechanism for the Thermal Decomposition of BCl3/H2	**Gas** Mixtures	9	3203
Enhanced CO and CO2	**Gas** Sensitivity of the CuO/ZnO Heterocontact Made by Quenched CuO Ceramics	2	632
Low Pressure Chemically Vapor Deposited WO3 Thin Films for Integrated	**Gas** Sensor Applications	4	1346
Current Change Method of Reducing	**Gas** Sensing Using ZnO Varistors	8	2920
bilized Zirconia Influence of Humidity on a Potentiometric CO2	**Gas** Sensor Using a Combined Electrolyte of Sodium Ion Conducting Glass and Sta	9	2981
ters on the Texture of Chemical Vapor Deposited Tungsten Films by a WF6/H2/Ar	**Gas** Source Influence of Deposition Parame	9	3235
Vapor Deposition Calculation of	**Gas** Spectra for Quantitative Fourier Transform Infrared Spectroscopy of Chemical	9	3212
Mass Transport in	**Gas-Diffusion** Electrodes: A Diagnostic Tool for Fuel-Cell Cathodes	1	5
e Ions with Various Metal Catalysts Electrochemical Synthesis of Urea at	**Gas-Diffusion** Electrodes. III. Simultaneous Reduction of Carbon Dioxide and Nitrit	2	595
te Ions with Various Metal Catalysts Electrochemical Synthesis of Urea at	**Gas-Diffusion** Electrodes. IV. Simultaneous Reduction of Carbon Dioxide and Nitra	7	2348
The Effects of	**Gas-Phase** Additives NH3, NO, and NO2 on SiH4/O2 Chemical Vapor Deposition	3	1070
Thermodynamics and Kinetics of	**Gas-Phase** Reactions in the Ti-Cl-H System	6	2167
kis(dimethylamido)titanium Effect of the	**Gas-Phase** Reaction in Metallorganic Chemical Vapor Deposition of TiN from Tetra	7	2483
mvs) The Role of	**Gas-Phase** Reactions during Chemical Vapor Deposition of Copper from (hfac)Cu(t	12	4228
A Novel Method of CO2 Capture from High Temperature	**Gases**	4	1344
e in Microroughness of a Silicon Surface during In Situ Cleaning Using HF and HCl	**Gases** Chang	12	4264
Surface and Interface Roughness of Ultrathin Nitric Oxide Oxynitride	**Gate** Dielectric	1	L13
Oxide Semiconductor Applications Characterization of High Quality Nitrided	**Gate** Dielectric Films Manufactured in Reduced Pressure Furnace for Ultralarge Sca	5	1679
Investigation of Boron Penetration Through Thin	**Gate** Dielectrics Including Role of Nitrogen and Fluorine	7	2545
Reliability Impact of Floating	**Gate** Dopant Concentration and Interpoly Dielectric Processing on Tunnel Dielectric	4	1351
Formation of High Conductivity WSix Layer and Its Characterization as a	**Gate** Electrode	9	3228
Optimization of SiON Film Compositions for Encapsulation of Refractory Metal	**Gate** GaAs Metal-Semiconductor Field Effect Transistor	1	323
da Surface State Generation of Mo	**Gate** Metal Oxide Semiconductor Devices Caused by Mo Penetration into Gate Oxi	4	1297
n of Mo Gate Metal Oxide Semiconductor Devices Caused by Mo Penetration into	**Gate** Oxide Surface State Generatio	4	1297
ted Local Oxidation of Silicon. Cavity Dimension Effects on Mechanical Stress and	**Gate** Oxide Integrity Optimization of Polysilicon Encapsula	5	1653
nd Roughness Generated in Ammonia Hydrogen Peroxide Mixtures (SC1) on 5 nm	**Gate** Oxides Impact of Iron Contamination a	7	2589
Impact of High-Temperature Dry Local Oxidation on	**Gate** Oxide Quality	7	2595
Drastic Improvements of	**Gate** Oxide Reliability by Argon Annealing Compared with Hydrogen Annealing	10	3628
Interface States Distribution in Electrical Stressed Oxynitrided	**Gate-Oxide**	7	2489
Effects of CoSi2 on p+ Polysilicon	**Gates** Fabricated by BF2+ Implantation into CoSi/Amorphous Si Bilayers	10	3590
Chemical Sensors with Catalytic Metal	**Gates**. Switching Behavior and Kinetic Phase Transitions	10	3401
opic Study of Ionic Transport Mechanism in Fire-Retardant Polyacrylonitrile-Based	**Gel** Electrolytes for Li Polymer Batteries An Ionic Conductivity and Spectrosc	3	881
Preparation and Characterization of Poly(vinyl chloride-co-vinyl acetate)-Based	**Gel** Electrolytes for Li-Ion Batteries	4	1207
Decomposition of Trichloroethylene by Microwave-Induced Plasma	**Generated** from SiC Whiskers	1	229
Impact of Iron Contamination and Roughness	**Generated** in Ammonia Hydrogen Peroxide Mixtures (SC1) on 5 nm Gate Oxides	7	2589
Improved GaAs Bonding Process for Quasi-Phase-Matched Second Harmonic	**Generation**	1	366
icate Glass Films Investigation of Particle	**Generation** during the Low-Pressure Chemical Vapor Deposition of Borophosphosil	6	2051
ation into Gate Oxide Surface State	**Generation** of Mo Gate Metal Oxide Semiconductor Devices Caused by Mo Penetr	4	1297
	Geometric Requirements of Solid Electrolyte Cells with a Reference Electrode	4	1184
Gas Conversion Impedance: A Test	**Geometry** Effect in Characterization of Solid Oxide Fuel Cell Anodes	7	2431
Thin Films of Amorphous	**Germanium-Tin** Alloys Prepared by Radio-Frequency Magnetron Sputtering	4	1303
Electrochemical Properties of	**GeS2-Based** Glass-Polymer Composite Electrolytes for Lithium-Ion Batteries	6	1949
n	**Gettering** of Iron to Implantation Induced Cavities and Oxygen Precipitates in Silico	4	1400
Analysis of Iron Precipitation in Silicon as a Basis for	**Gettering** Simulations	12	4259
ation and Characterization of Uniform Metallic Nanostructures Using Nanochannel	**Glass** Fabric	1	247
Enhanced Diffusion of Boron in Si during Doping from Borosilicate	**Glass**	7	2534
iometric CO2 Gas Sensor Using a Combined Electrolyte of Sodium Ion Conducting	**Glass** and Stabilized Zirconia Influence of Humidity on a Potent	9	2981
Moisture Instability of Borophosphosilicate	**Glass** and the Effects of Thermal Treatment	11	3960
Ion Drift Processes in Pyrex-Type Alkali-Borosilicate	**Glass** during Anodic Bonding	5	1755
ration during the Low-Pressure Chemical Vapor Deposition of Borophosphosilicate	**Glass** Films Investigation of Particle Gene	6	2051
Electrochemical Properties of GeS2-Based	**Glass-Polymer** Composite Electrolytes for Lithium-Ion Batteries	6	1949
Electrochemical Identification of the Hydrogen Sulfide System Using a pH2S	**(glass/Ag, Ag2S)** Electrode	1	77
ontact Glow Discharge Electrolysis. The Relationship Between Power Dissipated in	**Glow** Discharges and Nonfaradaic Yields A Study on the Origin of Nonfarad	7	2209
aic Yields A Study on the Origin of Nonfaradaic Behavior of Anodic Contact	**Glow** Discharge Electrolysis. The Relationship Between Power Dissipated in Glow	7	2209
Clay-Enhanced Electrochemiluminescence and Its Application in the Detection of	**Glucose**	8	2854
Design and Simulation of a Reverse Iontophoretic	**Glucose** Monitoring Device	12	4119
cterizations of Iron-Containing Clay Modified Electrodes and Their Applications for	**Glucose** Sensing Chara	1	154
Copper Deposition in the Presence of Polyethylene	**Glycol**. I. Quartz Crystal Microbalance Study	10	3472
Copper Deposition in the Presence of Polyethylene	**Glycol**. II. Electrochemical Impedance Spectroscopy	10	3477
n of Composite Electrolytes by Mixing Polyethylene Oxide- and Polytetramethylene	**Glycol-Based** Waterborne Polyurethane with the Addition of LiClO4/Propylene Car	10	3450
Glycosyl Halides as Building Blocks for the Electrosynthesis of	**Glycosides**	4	1108
	Glycosyl Halides as Building Blocks for the Electrosynthesis of Glycosides	4	1108
Sulfamides and	**Glymes** as Aprotic Solvents for Lithium Batteries	10	3500
A Novel	**Gold** Electroplating System: Gold(I)-Iodide-Thiosulfate	3	974
Electrochemical Quartz Crystal Microbalance Study of the Dissolution Process of a	**Gold** Electrode in Perchloric Acid Solution Containing Chloride Ion An In Situ	5	1614
The Mechanism of the Oxidative Dissolution of Colloidal	**Gold** in Cyanide Media	2	408
A Novel Gold Electroplating System:	**Gold(I)-Iodide-Thiosulfate**	3	974
Preparation of a	**Gold-Sputtered** Optical Fiber as a Microelectrode for Electrochemical Microscopy	6	2011
	Gradient Control of Magnetic Properties in Electroless-Deposited CoNiP Thin Films	1	134
Diode-Like Property of Prussian Blue Films Containing Concentration	**Gradients** in Serial Mixed Valent Layers	11	3788
Cells	**Gradual** Internal Methane Reforming in Intermediate-Temperature Solid-Oxide Fuel	10	3487
Effects of Fluorine Passivation Using SF6 Plasma on the Corrosion of Al(Cu 1%) at	**Grain** Boundaries The	3	1044
Chemical Diffusion Through	**Grain** Boundaries in Mixed Conductors	5	1702
	Grain Boundary Segregation of Cation Dopants in Alpha -Al2O3 Scales	6	1819
A Finite Element Study on the	**Grain** Boundary Impedance of Different Microstructures	6	2081
ation Optical Monitoring of Capacitance in Hemispherical	**Grain** Polycrystalline Silicon for Advanced Dynamic Random Access Memory Applic	11	3935
The Thermal Stability of CoSi2 on Polycrystalline Silicon: The Effect of Silicon	**Grain** Size and Metal Thickness	4	1384
deling of Growth Morphology of Underpotential Electropolymerization of Pyrrole on	**Graphite** Mo	1	179
thium-Ion Batteries Charge-Discharge Properties of Composite of Synthetic	**Graphite** and Poly(3-n-hexylthiophene) as an Anode Active Material in Rechargeabl	5	1415
Common Electroanalytical Behavior of Li Intercalation Processes into	**Graphite** and Transition Metal Oxides	9	3024
nvestigation of the Electrochemical Reduction of Carbonate Electrolyte Solutions at	**Graphite** Electrodes In Situ I	4	1081
-Crystal Silicon The Impact of	**Graphite** Furnace Parts on Radial Impurity Distribution in Czochralski-Grown Single	2	621

		Issue	Page
Computational Studies of Lithium Intercalation in Model	**Graphite** in the Presence of Tetrahydrofuran	10	3328
Impedance Study on the Electrochemical Lithium Intercalation into Natural	**Graphite** Powder	1	172
te Electropolymerization of Polypyrrole Nanostructures on Highly Ordered Pyrolytic	**Graphite** Step and Pit Defects Templa	10	3320
In Situ Raman Studies of	**Graphite** Surface Structures during Lithium Electrochemical Intercalation	3	765
the Brunauer-Emmett-Teller Surface Area	**Graphites** for Lithium-Ion Cells: The Correlation of the First-Cycle Charge Loss with	2	428
d by X-Ray Topography and Computer Simulation	**Gravitational** Stress-Induced Dislocations in Large-Diameter Silicon Wafers Studie	7	2523
Photoluminescence Studies of Cadmium Selenide Crystals in Contact with	**Group** III Trialkyl Derivatives	7	2475
Surface Pits Observed on SiO2 Thermally	**Grown** at High Temperatures on (111)-Oriented Czochralski-Silicon	6	2143
Luminescence from Erbium-Doped Silicon Epi Layers	**Grown** by Liquid-Phase Epitaxy	1	L8
Chemical and Electrochemical Passivation of PbSe Thin Layers	**Grown** by Molecular Beam Epitaxy	2	512
d Microstructure of Low-Pressure Chemical Vapor Deposited Silicon Dioxide Films	**Grown** from TEOS/N2O Mixtures Thermodynamic Study, Composition, an	4	1310
toichiometry and Te Concentration on the Deep Levels in Liquid-Phase Epitaxially	**Grown** n-Type Al0.3Ga0.7As Effects of S	8	2905
s of Annealing on Oxygen Depth Profiles and Chemical Etching Rates of Thermally	**Grown** Silicon Oxides Effect	4	1306
Influence of Residual Point Defect Supersaturation on the Formation of	**Grown**-In Oxide Precipitate Nuclei in CZ-Si	5	L75
ess Atomic Layer Epitaxy of Copper.	**Growth** and Selectivity in the Cu(II)-2,2,6,6-tetramethyl-3,5-heptanedionate/H2 Proc	8	2926
ond-Coated Silicon Substrates	**Growth** and Characterization of Eu:Y2O3 Thin-Film Phosphors on Silicon and Diam	10	3456
Effect of Fluorine on Surface Morphology in Selective Epitaxial TiSi2	**Growth** by Plasma-Enhanced Chemical Vapor Deposition	5	1640
cal Vapor Deposition Using Si(OC2H5)4 and O3 Effects of Substrate on the	**Growth** Characteristics of Silicon Oxide Films Deposited by Atmospheric Pressure	8	2847
Modeling and Process Optimization of ZnSe and ZnS Epitaxial	**Growth** in a Vertical Metallorganic Vapor-Phase Epitaxy Reactor	8	2887
Dopant Effects on Lateral Silicide	**Growth** in Self-Aligned Titanium Silicide Process	10	3585
	Growth Kinetics of Chemical Vapor Deposition of Beta-SiC from (CH3)2SiCl2/Ar	7	2516
osphoric Acid	**Growth** Kinetics and Morphology of Porous Anodic Alumina Films Formed Using Ph	8	2899
Modeling of	**Growth** Morphology of Underpotential Electropolymerization of Pyrrole on Graphite	1	179
Effects of Experimental Parameters on Void Formation in the	**Growth** of 3C-SiC Thin Film on Si Substrate	1	292
On the Kinetics of	**Growth** of Anodic Oxide Films	3	898
Mechanism of Particle	**Growth** of a BaMgAl10O17:Eu2+ Phosphor by Firing with AlF3	11	3898
Automated Deposition System Optimization of the	**Growth** of CdTe Thin Films Formed by Electrochemical Atomic Layer Epitaxy in an	10	3594
Structural Investigation of the Bias-Enhanced Nucleation and	**Growth** of Diamond Films by Microwave Plasma Chemical Vapor Deposition	6	2095
	Growth of III-Nitrides on ZnO, LiGaO2, and LiAlO2 Substrates	7	2581
sited Ti2O3-Matrix Composites. I. Effect of the Dispersed Phase on Nucleation and	**Growth** of the Matrix Electrodepo	2	549
Atomic Layer Epitaxy	**Growth** of TiN Thin Films from TiI4 and NH3	8	2914
Nucleation and	**Growth** of Zinc from Chloride Concentrated Solutions	12	4090
Effect of Low-Temperature Conditions on Passive Layer	**Growth** on Li Intercalation Materials. In Situ Impedance Study	8	2711
Electrochemical Quartz Crystal Microbalance Studies of Polypyrrole	**Growth** on Self-Assembled Nucleation Sites	5	1483
ocesses Mechanisms of Film	**Growth** Rate Enhancement in Anodic and Cathodic Corona-Discharge Oxidation Pr	8	2944

— H —

nd Methanol Transport in Poly(perfluorosulfonate) Membranes Containing Cs+ and	**H+** Cations Proton a	11	3798
e Aluminum Chemical Vapor Deposition Using Dimethylaluminum Hydride Without	**H2** Carrier Gas Very Low Pressure Selectiv	12	4327
Microcrystalline Silicon Film Deposition from	**H2-He-SiH4** Using Remote Plasma Enhanced Chemical Vapor Deposition	8	2900
The Corrosion of Mo-Al Alloys in a	**H2/H2S/H2O** Gas Mixture at 800-1000 C	7	2265
Behavior of Raipore Radiation-Grafted Polymer Membranes in	**H2/O2** Fuel Cells	3	780
ignals and Hydrogen Permeation in High Strength, Low Alloy Steel Cracking in Wet	**H2S** Correlation Between Acoustic Emission S	6	1968
f Al2O3 for Selective Patterning of Microstructures Using Ar+ Ion Implantation and	**H3PO4** Wet Etching o	1	344
Glycosyl	**Halides** as Building Blocks for the Electrosynthesis of Glycosides	4	1108
Lithium-7 Nuclear Magnetic Resonance Investigation of Lithium Insertion in	**Hard** Carbon	4	1179
Reduction of the Irreversible Capacity in	**Hard-Carbon** Anode Materials Prepared from Sucrose for Li-Ion Batteries	6	1977
On the Reduction of Lithium Insertion Capacity in	**Hard-Carbon** Anode Materials with Increasing Heat-Treatment Temperature	7	2252
ing of High Speed Print Bands. II. An Electrochemical Process for Microfinishing of	**Hardened** Fe-13Cr Stainless Steel Surface Finish	5	3052
The Effect of the Lead Alloy	**Hardening** Process in Electric Vehicle Storage Batteries on Corrosion Resistance	9	3183
Substrate Effects on	**Hardness** and Polishing of SiO2 Thin Films	5	1790
Improved GaAs Bonding Process for Quasi-Phase-Matched Second	**Harmonic** Generation	1	366
High Temperature Reactive Ion Etching of Indium-Tin Oxide with	**HBr** and CH4 Mixtures	12	4313
ange in Microroughness of a Silicon Surface during In Situ Cleaning Using HF and	**HCl** Gases Ch	12	4264
Modeling of Solid Oxide	**Heat** Exchanger Integrated Stacks and Simulation at High Fuel Utilization	11	3995
duction Heating	**Heat** Transfer, Fluid Flow, and Interface Shapes in Zone Melting Processing with In	11	3926
Oxygen Reduction Characteristics of	**Heat-Treated** Catalysts Based on Cobalt-Porphyrin Ion Complexes	3	815
Influence of Nitrogen-Containing Precursors on the Electrocatalytic Activity of	**Heat-Treated** Fe(OH)2 on Carbon Black for O2 Reduction	7	2411
trocatalyst for Oxygen Reduction. I. Characterization of the Electrocatalyst	**Heat-Treated** Iron(III) Tetramethoxyphenyl Porphyrin Supported on High-Area Carb	10	3493
Changes in the Electrochemical Behavior of Polymeric Carbon Induced by	**Heat-Treatment** and Doping with Lithium Ions	3	721
Study of the Structural Change Due to	**Heat-Treatment** in High Resistivity Electroless NiPC Film	7	2419
ction of Lithium Insertion Capacity in Hard-Carbon Anode Materials with Increasing	**Heat-Treatment** Temperature On the Redu	7	2252
ansfer, Fluid Flow, and Interface Shapes in Zone Melting Processing with Induction	**Heating** Heat Tr	11	3926
A Two-Dimensional Model of Chemical Vapor Infiltration with Radio-Frequency	**Heating**. II. Strategies to Achieve Complete Densification	10	3569
Single-Electrode Peltier	**Heats** of Li-Si Alloy Electrodes in LiCl-KCl Eutectic Melt	6	1986
W-Clad Layer Formation on	**Heavily** Doped p+-Si by Selective Chemical Vapor Deposition	12	4203
SiOF Film Deposition Using FSi(OC2H5)3 Gas in a	**Helicon** Plasma Source	7	2576
nvective Warburg Impedance Rotating	**Hemispherical** Electrode. Accurate Expressions for the Limiting Current and the Co	12	4189
Memory Application Optical Monitoring of Capacitance in	**Hemispherical** Grain Polycrystalline Silicon for Advanced Dynamic Random Access	11	3935
Direct Electron Transfer for	**Hemoglobin** in Surfactant Films Cast on Carbon Electrodes	2	533
Enhanced CO and CO2 Gas Sensitivity of the CuO/ZnO	**Heterocontact** Made by Quenched CuO Ceramics	2	632
Keggin-Type	**Heteropolyacids** as Electrode Materials for Electrochemical Supercapacitors	3	737
Spectroelectrochemical Studies of Indium	**Hexacyanoferrate** Electrodes Prepared by the Sacrificial Anode Method	7	2334
Self-Organized Formation of	**Hexagonal** Pore Structures in Anodic Alumina	11	3735
l by Single-Wafer Spin Cleaning with Repetitive Use of Ozonized Water and Dilute	**HF** Contamination Remova	9	3278
Change in Microroughness of a Silicon Surface during In Situ Cleaning Using	**HF** and HCl Gases	12	4264
Fibrous and Porous Microstructure Formation in 6H-SiC by Anodization in	**HF** Solution	7	2456
Limitation of	**HF-Based** Chemistry for Deep-Submicron Contact Hole Cleaning on Silicides	9	3240
e Role of Gas-Phase Reactions during Chemical Vapor Deposition of Copper from	**(hfac)Cu(tmva)** Th	12	4226
sorption Spectra of Carbon Monoxide Adsorbed on Platinum Particles Dispersed in	**High-Area** Carbon in Aqueous Electrolytes In Situ Real-Time Pt LIII-Edge X-	1	80
catalyst Heat-Treated Iron(III) Tetramethoxyphenyl Porphyrin Supported on	**High-Area** Carbon as an Electrocatalyst for Oxygen Reduction. I. Characterization o	10	3493
O2 Reduction on an Ink-Type Rotating Disk Electrode Using Pt Supported on	**High-Area** Carbons	11	3713
Large Hysteresis during Lithium Insertion into and Extraction from	**High-Capacity** Disordered Carbons	2	478
	High-Concentration Arsenic-Doped Silicon Hydrogenated by Microwave Plasma	3	1028
Composition and Microstructures on Performance of Ceria-Based Anodes	**High-Performance** Electrode for Medium-Temperature Solid Oxide Fuel Cells. Effe	2	615
Characterization of	**High-Surface-Area** Electrocatalysts Using a Rotating Disk Electrode Configuration	7	2354
	High-Temperature Diffusion of Hydrogen and Deuterium in Titanium and Ti3Al	7	2471
Impact of	**High-Temperature** Dry Local Oxidation on Gate Oxide Quality	7	2595
abricating Antiresonant Reflecting Optical Waveguides	**High-Temperature** Wet Chemical Etching of Ta2O5 in NaOH-Based Solutions for F	3	1020
The Search for Cathode and Anode Traps in	**High-Voltage** Stressed Silicon Oxides	4	1292
Limitation of HF-Based Chemistry for Deep-Submicron Contact	**Hole** Cleaning on Silicides	9	3240
r Chemiluminescence from Porous Silicon	**Hole** Injection at the Silicon/Aqueous Electrolyte Interface: A Possible Mechanism fo	4	1232
th Natural Convection along a Plane Vertical Anode Measured by Two-Wavelength	**Holographic** Interferometry Ionic Mass-Transfer Rates Associated wi	11	3814
PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. A Combined XPS, AFM,	**HRTEM**, and RDE Study	3	925
Secondary Current Distribution in a Curvilinear	**Hull Cell**	9	3042
dium Ion Conducting Glass and Stabilized Zirconia Influence of	**Humidity** on a Potentiometric CO2 Gas Sensor Using a Combined Electrolyte of So	9	2981
Thermogravimetric/Mass and Infrared Spectroscopic Properties and	**Humidity** Sensitivity of Polyaniline Derivatives/Polyvinyl Alcohol Composites	10	3351

		Issue	Page
Effect of Additives on the Viscosity of Liquid-Phase Dimethylaluminum	**Hydride**	2	L23
Self-Discharge of Sealed Nickel-Metal	**Hydride** Batteries. Mechanisms and Improvements	3	844
Mechanism of Alloy Corrosion and Consequences on Sealed Nickel-Metal	**Hydride** Battery Performance	3	860
The Effect of Particle Size on the Discharge Performance of a Nickel-Metal	**Hydride** Cell	6	1840
ling of Batteries and Fuel Cells. II. Application to Nickel-Cadmium and Nickel-Metal	**Hydride** Cells Micro-Macroscopic Coupled Mode	10	3418
Kinetic Behavior of Metal	**Hydride** Electrode by Means of AC Impedance	5	1801
Theoretical Analysis of Metal	**Hydride** Electrodes. Studies on Equilibrium Potential and Exchange Current Density	12	4082
The Electrochemical Performance of Pd-Coated Metal	**Hydride** Electrodes with Different Binding Additives in Alkaline Solution	12	4169
ressure Selective Aluminum Chemical Vapor Deposition Using Dimethylaluminum	**Hydride** Without H2 Carrier Gas Very Low P	12	4327
formance Curves in a Parallel-Plate Reactor for the Electrochemical Fluorination of	**Hydrocarbons** Profiles and Per	5	1578
The Pitting Behavior of Iron-Chromium Thin Film Alloys in	**Hydrochloric** Acid	5	1588
Hydrophobicity of a	**Hydrochloric-Treated** GaAs Surface Analyzed by Contact Angle Measurement	4	1381
Mass Transport in Sonovoltammetry with Evidence of	**Hydrodynamic** Modulation from Ultrasound	6	1994
Electrochemical Study of Copper Deposition onto Silicon from Dilute and Buffered	**Hydrofluoric** Acids A Comparative	1	241
ctrochemical Impedance Spectroscopy of Copper Deposition on Silicon from Dilute	**Hydrofluoric** Acid Solutions Ele	1	352
Etch in a High Density Plasma Etch Tool Use of Novel	**Hydrofluorocarbon** and Iodofluorocarbon Chemistries for a High Aspect Ratio Via	12	4305
Pulsed Electrodeposition Synthesis and	**Hydrogen** Absorption Properties of Nanostructured Palladium-Iron Alloy Films	10	3339
High-Temperature Diffusion of	**Hydrogen** and Deuterium in Titanium and Ti3Al	7	2471
Drastic Improvements of Gate Oxide Reliability by Argon Annealing Compared with	**Hydrogen** Annealing	10	3628
sition Preparation of a-SiNx Thin Film with Low	**Hydrogen** Content by Inductively Coupled Plasma Enhanced Chemical Vapor Depo	2	652
es Application of	**Hydrogen** Diffusion Anodes in Electrolytic Processes Using Methanol-Water Mixtur	5	1502
itu Infrared Spectroscopy Surface Composition of n-GaAs Cathodes during	**Hydrogen** Evolution Characterized by In Situ Ultraviolet-Visible Ellipsometry and In	2	447
Study of the	**Hydrogen** Evolution Reaction on Ni-Mo-P Electrodes in Alkaline Solutions	7	2219
ed Technique	**Hydrogen** Evolution on Thin-Film Deposited Electrodes Prepared by a Plasma-Bas	9	3150
orage in Water	**Hydrogen** Exchange Reaction on Hydrogen-Terminated (100) Si Surface during St	2	659
Changes in the Environment of	**Hydrogen** in Porous Silicon with Thermal Annealing	7	2439
Electrochemical Capacitors Using Hydrous Ruthenium Oxide and	**Hydrogen** Inserted Ruthenium Oxide	1	49
inetetraacetic Acid Evolution and Entry of	**Hydrogen** into Iron during Cathodic Charging in Alkaline Solution with Ethylenediam	4	1142
of Pd Black Deposits on Successive Hydrogenation of 4-Methylstyrene with Active	**Hydrogen** Passing Through a Pd Sheet Electrode Effect	1	138
hematical Model and Experimental Study Characterization of	**Hydrogen** Permeation Through Zinc-Nickel Alloys under Corroding Conditions. Mat	6	1907
Correlation Between Acoustic Emission Signals and	**Hydrogen** Permeation in High Strength, Low Alloy Steel Cracking in Wet H2S	6	1968
Impact of Iron Contamination and Roughness Generated in Ammonia	**Hydrogen** Peroxide Mixtures (SC1) on 5 nm Gate Oxides	7	2589
Nonlinear Phenomena during the Reduction of	**Hydrogen** Peroxide in Alkaline Solution Involving Mass Transfer	11	3857
Properties of a-SiOx:H Thin Films Deposited from	**Hydrogen** Silsesquioxane Resins	8	2861
Materials Issues with Thin Film	**Hydrogen** Silsesquioxane Low K Dielectrics	11	4019
The Effect of Annealing on the Discharge Characteristics of a Zr-V-Mn-Ni	**Hydrogen** Storage Alloy	6	1953
Studies on Electroless Cobalt Coatings for Microencapsulation of	**Hydrogen** Storage Alloys	9	3000
Electrochemical Identification of the	**Hydrogen** Sulfide System Using a pH2S (glass/Ag, Ag2S) Electrode	1	77
all Utilization of	**Hydrogen** Sulfide in an Intermediate-Temperature Ceria-Based Solid Oxide Fuel C	5	1449
Reactivity of Alkylsilanes and Alkylcarbosilanes in Atomic	**Hydrogen-Induced** Chemical Vapor Deposition	3	1060
s in Sealed Ni-MH Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92	**Hydrogen-Storage** Alloys Determination of Internal Cell Pressure	10	3387
Hydrogen Exchange Reaction on	**Hydrogen-Terminated** (100) Si Surface during Storage in Water	2	659
High-Concentration Arsenic-Doped Silicon	**Hydrogenated** by Microwave Plasma	3	1028
Enhanced Chemical Vapor Deposition Amorphous	**Hydrogenated** Silicon Films for Solar Cell Application Obtained with 55 kHz Plasma	7	2508
Application of a Semi-insulating Amorphous	**Hydrogenated** Silicon Nitride Film as a Resistive Field Shield and Its Reliability	12	4296
eet Electrode Effect of Pd Black Deposits on Successive	**Hydrogenation** of 4-Methylstyrene with Active Hydrogen Passing Through a Pd Sh	1	138
Electrogeneration of	**Hydroperoxide** Ion Using an Alkaline Fuel Cell	10	3444
Adsorption of Metal Ions onto	**Hydrophilic** Silicon Surfaces from Aqueous Solution: Effect of pH	8	2841
e Measurement	**Hydrophobicity** of a Hydrochloric-Treated GaAs Surface Analyzed by Contact Angl	4	1381
Electrosynthesis of Sodium	**Hydrosulfite**. I. Development of an Online Process Control Monitor	12	4052
Electrosynthesis of Sodium	**Hydrosulfite**. II. The Effect of Cathode Material	12	4057
Electrosynthesis of Sodium	**Hydrosulfite**. III. Porous Cathode Materials and Process Model	12	4062
Synthesis of LiMnO2 with alpha-NaMnO2-Type Structure by a Mixed-Alkaline	**Hydrothermal** Reaction	4	L49
Electrochemical Capacitors Using	**Hydrous** Ruthenium Oxide and Hydrogen Inserted Ruthenium Oxide	1	49
A Raman Study of Etching Silicon in Aqueous Tetramethylammonium	**Hydroxide**	11	4040
The Role of Oxygen at the Second Discharge Plateau of Nickel	**Hydroxide**	1	34
ma-NiOOH Beta-Ni(OH)2 Transitions during Electrochemical Cycling of the Nickel	**Hydroxide** Electrode Evidence for Direct Gam	5	1434
Mass Transfer and Kinetic Phenomena at the Nickel	**Hydroxide** Electrode	11	3860
In Situ Ellipsometric Study of the Electroprecipitation of Nickel	**Hydroxide** Films	4	1174
Proton Diffusion in Nickel	**Hydroxide**. Prediction of Active Material Utilization	1	29
Synthesis of LiCoO2 by Decomposition and Intercalation of	**Hydroxides**	3	887
A Study on the Phase Transformation of Electrochemically Precipitated Nickel	**Hydroxides** Using an Electrochemical Quartz Crystal Microbalance	2	507
Preparation of Indium	**Hydroxy** Sulfide Inx(OH)ySz Thin Films by Chemical Bath Deposition	8	2775
Mechanistic Study of Cathodic Electrodeposition of Zinc Oxide and Zinc	**Hydroxychloride** Films from Oxygenated Aqueous Zinc Chloride Solutions	3	864
ed Carbons Large	**Hysteresis** during Lithium Insertion into and Extraction from High-Capacity Disorder	2	478

— I —

rode Electrochemical	**Identification** of the Hydrogen Sulfide System Using a pH2S (glass/Ag, Ag2S) Elect	1	77
A Novel Statistical Metrology Framework for	**Identifying** Sources of Variation in Oxide Chemical Mechanical Polishing	3	1052
Growth of	**III-Nitrides** on ZnO, LiGaO2, and LiAlO2 Substrates	7	2581
Controlled Anodic Oxidation for High Precision Etch Depth in AlGaAs	**III-V** Semiconductor Structures	3	1076
Atomically Resolved Scanning Tunneling Microscopy	**Images** of InP(001), (111)A, and (111)B Surfaces in Sulfuric Acid Solution	9	3090
nterface by Secondary-Ion Mass Spectrometry Active Sites	**Imaging** for Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia I	9	3196
n Tunnel Dielectric Reliability	**Impact** of Floating Gate Dopant Concentration and Interpoly Dielectric Processing o	4	1351
wn Single-Crystal Silicon The	**Impact** of Graphite Furnace Parts on Radiel Impurity Distribution in Czochralski-Gro	2	621
	Impact of High-Temperature Dry Local Oxidation on Gate Oxide Quality	7	2595
roxide Mixtures (SC1) on 5 nm Gate Oxides	**Impact** of Iron Contamination and Roughness Generated in Ammonia Hydrogen Pe	7	2589
otentiostatic to Galvanostatic Control The	**Impact** of the Operation Mode on Pattern Formation in Electrode Reactions. From P	7	2404
haracterization of Crystal Quality by Crystal Originated Particle Delineation and the	**Impact** on the Silicon Wafer Surface C	1	275
Kinetic Behavior of Metal Hydride Electrode by Means of AC	**Impedance**	5	1801
ctrode. Accurate Expressions for the Limiting Current and the Convective Warburg	**Impedance** Rotating Hemispherical Ele	12	4189
odes Gas Conversion	**Impedance**: A Test Geometry Effect in Characterization of Solid Oxide Fuel Cell An	7	2431
Electrolyte	**Impedance** Characteristics of Oxygen Reduction at a Platinum Electrode in Alkaline	3	936
A Finite Element Study on the Grain Boundary	**Impedance** of Different Microstructures	6	2081
Negative	**Impedance** of the Nafion Membrane Between Two Electrolyte Solutions	8	2740
-Electronic Conductors with Arbitrary Electronic Transport Numbers. Application of	**Impedance**, Potentiostatic, and Galvanostatic Methods to Ag1.92Te Determi	6	2179
Acid Solutions Electrochemical	**Impedance** Spectroscopy of Copper Deposition on Silicon from Dilute Hydrofluoric	1	352
xamination of the Role of Molybdenum in Passivation of Stainless Steels Using AC	**Impedance** Spectroscopy E	5	1462
Blocking Inhibitors in Cathodic Leveling. III. Electrochemical	**Impedance** Spectroscopy Study	5	1561
Copper Deposition in the Presence of Polyethylene Glycol. II. Electrochemical	**Impedance** Spectroscopy	10	3477
Powder	**Impedance** Study on the Electrochemical Lithium Intercalation into Natural Graphite	1	172
num Electrodes	**Impedance** Studies of the Oxygen Reduction on Thin Porous Coating Rotating Plati	7	2307
perature Conditions on Passive Layer Growth on Li Intercalation Materials. In Situ	**Impedance** Study Effect of Low-Tem	8	2711
nhanced Chemical Vapor Deposited Tetraethylorthosilicate Oxide Film on a Boron	**Implant** Profile The Effect of Low-Pressure and Plasma-E	6	1677
Processes in Ultrathin Buried Oxide Synthesis Stimulated by Low Dose Ion	**Implantation**	8	2964
Wet Etching of Al2O3 for Selective Patterning of Microstructures Using Ar+ Ion	**Implantation** and H3PO4	1	344
Gettering of Iron to	**Implantation** Induced Cavities and Oxygen Precipitates in Silicon	4	1400

		Issue	Page
Recombination Centers Created by Ar+-Ion	**Implantation** into SIMOX Substrates	5	1795
Effects of CoSi2 on p+ Polysilicon Gates Fabricated by BF2+	**Implantation** into CoSi/Amorphous Si Bilayers	10	3590
Extension of Dose Window for Low-Dose Separation by	**Implanted** Oxygen	5	1735
poration Control Reliability	**Improvement** of AlInAs/GaInAs High Electron Mobility Transistors by Fluorine Incor	8	2951
Electrodes The Role of 8 mol % Yttria Stabilized Zirconia in the	**Improvement** of Electrochemical Performance of Lanthanum Manganite Composite	6	1932
cation of Passive Film with Ultraviolet Light Irradiation	**Improvement** of Pitting Corrosion Resistance of Type 304 Stainless Steel by Modifi	5	L79
Self-Discharge of Sealed Nickel-Metal Hydride Batteries. Mechanisms and	**Improvements**	3	844
en Annealing Drastic	**Improvements** of Gate Oxide Reliability by Argon Annealing Compared with Hydrog	10	3628
The Impact of Graphite Furnace Parts on Radial	**Impurity** Distribution in Czochralski-Grown Single-Crystal Silicon	2	621
Oxygen Diffusion in Single-Crystal In2O3 and Tin-Doped	**In2O3**	8	2910
Oxygen Diffusion in Single-Crystal	**In2O3** and Tin-Doped In2O3	8	2910
Highly Sensitive Microbiosensor for Creatinine Based on the Combination of	**Inactive** Polypyrrole with Polyion Complexes	2	406
Cells Pt	**Inclusion** Compounds as Oxygen Reduction Catalysts in Polymer-Electrolyte Fuel	9	2985
bility Improvement of AlInAs/GaInAs High Electron Mobility Transistors by Fluorine	**Incorporation** Control Relia	8	2951
Oxygen	**Incorporation** during the Electrodeposition of Ni, Fe, and Ni-Fe Alloys	11	3699
ions Nitrogen	**Incorporation** in Thin Silicon Oxides in a N2O Plasma. Effects of Processing Condit	2	662
Deposition from Solution	**Incorporation** of Cadmium Sulfide into Nanoporous Silicon by Sequential Chemical	7	2448
n the Reduction of Lithium Insertion Capacity in Hard-Carbon Anode Materials with	**Increasing** Heat-Treatment Temperature D	7	2252
Scanning Electrochemical Microscopy with Simultaneous	**Independent** Topography	4	L64
Spectroelectrochemical Studies of	**Indium** Hexacyanoferrate Electrodes Prepared by the Sacrificial Anode Method	7	2334
Preparation of	**Indium** Hydroxy Sulfide Inx(OH)ySz Thin Films by Chemical Bath Deposition	8	2775
The Electrochromic Behavior of	**Indium** Tin Oxide in Propylene Carbonate Solutions	7	2225
High Temperature Reactive Ion Etching of	**Indium-Tin** Oxide with HBr and CH4 Mixtures	12	4313
Changes in the Electrochemical Behavior of Polymeric Carbon	**Induced** by Heat-Treatment and Doping with Lithium Ions	3	721
Boron Diffusion in Compressively Stressed Float Zone-Silicon	**Induced** by Si3N4 Films	1	258
Gettering of Iron to Implantation	**Induced** Cavities and Oxygen Precipitates in Silicon	4	1400
Reduction of Electron-Beam	**Induced** Degradation by Rare Earth Doping in Y3(Al,Ga)5O12:Tb Phosphors	1	270
Heat Transfer, Fluid Flow, and Interface Shapes in Zone Melting Processing with	**Induction** Heating	11	3926
Low Temperature Copper Etching Using an	**Inductively** Coupled Plasma with Ultraviolet Light Irradiation	3	L37
Fluorocarbon Polymer Deposited by	**Inductively** Coupled Plasma Oxide Etching	4	L67
Preparation of a-SiNx Thin Film with Low Hydrogen Content by	**Inductively** Coupled Plasma Enhanced Chemical Vapor Deposition	2	652
Etching of SiC Using	**Inductively** Coupled Plasma	10	3609
Cl2-Based	**Inductively** Coupled Plasma Etching of NiFe and Related Materials	11	4025
Report of the Electrolytic	**Industries** for the Year 1997	10	3668
A Theoretical Analysis of the Effect of	**Inert** Blocking Agent on the Galvanostatic Pulse Plating	11	3851
Optimum Conditions for Composites Fiber Coating by Chemical Vapor	**Infiltration**	4	1263
fication A Two-Dimensional Model of Chemical Vapor	**Infiltration** with Radio-Frequency Heating. II. Strategies to Achieve Complete Densi	10	3569
Platinum and Palladium Surfaces In Situ	**Infrared** Reflection Absorption Spectroscopy Studies of Sulfuric Acid Formation on	2	487
rogen Evolution Characterized by In Situ Ultraviolet-Visible Ellipsometry and In Situ	**Infrared** Spectroscopy Surface Composition of n-GaAs Cathodes during Hy	2	447
Quantitative Evaluation of Precipitated Oxygen in Silicon by	**Infrared** Spectroscopy. Still an Open Problem	5	1715
Tribochemical Reactions of Silicon: An In Situ	**Infrared** Spectroscopy Characterization	7	2465
Calculation of Gas Spectra for Quantitative Fourier Transform	**Infrared** Spectroscopy of Chemical Vapor Deposition	9	3212
ion and Solvation Studies of LiClO4/Ethylene Carbonate Electrolyte by Raman and	**Infrared** Spectroscopy Ion Associat	10	3346
s/Polyvinyl Alcohol Composites Thermogravimetric/Mass and	**Infrared** Spectroscopic Properties and Humidity Sensitivity of Polyaniline Derivative	10	3351
Adsorption of Thiourea on Copper Electrodes Monitored by In Situ	**Infrared** Spectroscopy	10	3366
s In Situ	**Infrared** Study of the Oscillating Anodic Dissolution of Silicon in Fluoride Electrolyte	3	964
High Density Plasma Damage in	**InGaP/GaAs** and AlGaAs/GaAs High Electron Mobility Transistors	11	4036
Blocking	**Inhibitors** in Cathodic Leveling. III. Electrochemical Impedance Spectroscopy Study	5	1561
A Mathematical Model for the	**Initiation** of Aluminum Etch Tunnels	9	3100
emiluminescence from Porous Silicon Hole	**Injection** at the Silicon/Aqueous Electrolyte Interface: A Possible Mechanism for Ch	4	1232
Lowering of Leakage Current Density of (Ba,Sr)TiO3 Thin Films by Pulse	**Injection** Deposition	11	3884
Design of	**Injection** Feed Multiwafer Low-Pressure Chemical Vapor Deposition Reactors	7	2494
O2 Reduction on an	**Ink-Type** Rotating Disk Electrode Using Pt Supported on High-Area Carbons	11	3713
ocorrosion of p-InP(111) Single Crystals A New	**Inlet** System for Differential Electrochemical Mass Spectroscopy Applied to the Phot	2	576
rystalline GaAs with Brilliant X-Ray Irradiation Using Synchrotron Radiation	**Inner-Shell** Electron Excitation Effect on the Structural Change in Amorphous and	9	3063
c Studies of CO2 Reduction on a Mediated Electrode with Conducting Polymer and	**Inorganic** Conductor Films Mechanisti	11	3801
Ultrasmooth V-Grooves in	**InP** by Two-Step Wet Chemical Etching	4	1273
Wet Chemical Etching for V-grooves into	**InP** Substrates	8	2931
Photoluminescence of Semi-insulating	**InP** Wafers Prepared by Two-Step Wafer Annealing	3	1048
Atomically Resolved Scanning Tunneling Microscopy Images of	**InP(001)**, (111)A, and (111)B Surfaces in Sulfuric Acid Solution	9	3090
Electrochemical Capacitors Using Hydrous Ruthenium Oxide and Hydrogen	**Inserted** Ruthenium Oxide	1	49
Temperature On the Reduction of Lithium	**Insertion** Capacity in Hard-Carbon Anode Materials with Increasing Heat-Treatment	7	2252
h Its Related Layered Structures Todorokite as a Li	**Insertion** Cathode. Comparison of a Large Tunnel Framework "MnO2" Structure wit	11	3746
xidative Coprecipitation Method and Their Electrochemical Performance as Lithium	**Insertion** Electrode Materials Characterization of Layered Lithium Nickel Ma	4	1113
Studies of Lithium	**Insertion** in Ballmilled Sugar Carbons	1	62
Lithium	**Insertion** in Carbon-Silicon Composite Materials Produced by Mechanical Milling	8	2751
Lithium-7 Nuclear Magnetic Resonance Investigation of Lithium	**Insertion** in Hard Carbon	4	1179
Large Hysteresis during Lithium	**Insertion** into and Extraction from High-Capacity Disordered Carbons	2	478
Lithium	**Insertion** into Disordered Carbons Prepared from Designed Organic Polymers	9	3123
Mechanism of the Electrochemical	**Insertion** of Lithium into LiMn2O4 Spinels	2	459
Moisture	**Instability** of Borophosphosilicate Glass and the Effects of Thermal Treatment	11	3950
Low Pressure Chemically Vapor Deposited WO3 Thin Films for	**Integrated** Gas Sensor Applications	4	1346
Modeling of Solid Oxide Heat Exchanger	**Integrated** Stacks and Simulation at High Fuel Utilization	11	3995
te Dielectric Films Manufactured in Reduced Pressure Furnace for Ultralarge Scale	**Integration** Complementary Metal Oxide Semiconductor Applications Chara	5	1679
f the Degradation of Mechanical Strength of Silicon Wafers Caused by Large Scale	**Integration** Processes Experimental Study o	9	3160
xidation of Silicon. Cavity Dimension Effects on Mechanical Stress and Gate Oxide	**Integrity** Optimization of Polysilicon Encapsulated Local O	5	1653
Enhancement in Chemical	**Interaction** at Conducting Polymers/n-Si Interfaces by Their Electroreduction	2	711
Situ Raman Studies of Graphite Surface Structures during Lithium Electrochemical	**Intercalation** In	3	765
Prediction of Li	**Intercalation** and Battery Voltages in Layered vs. Cubic LixCoO2	7	2424
Super Dense LiC2 as a High Capacity Li	**Intercalation** Anode	7	2377
Capacity A Mathematical Model for	**Intercalation** Electrode Behavior. I. Effect of Particle-Size Distribution on Discharge	3	771
Computational Studies of Lithium	**Intercalation** in Model Graphite in the Presence of Tetrahydrofuran	10	3328
Impedance Study on the Electrochemical Lithium	**Intercalation** into Natural Graphite Powder	1	172
Effect of Low-Temperature Conditions on Passive Layer Growth on Li	**Intercalation** Materials. In Situ Impedance Study	8	2711
Synthesis of LiCoO2 by Decomposition and	**Intercalation** of Hydroxides	3	887
Common Electroanalytical Behavior of Li	**Intercalation** Processes into Graphite and Transition Metal Oxides	9	3024
Microscopy Investigation of Surface Forces at the Tungsten Oxide/Lithium Borate	**Interface** Scanning Force	2	669
Molecular Dynamics Simulation of V2O5/Li2SiO3	**Interface**	6	2155
Current Distribution at Porous Electrodes-Solid Oxide Electrolyte	**Interface**	9	3130
Hole Injection at the Silicon/Aqueous Electrolyte	**Interface**: A Possible Mechanism for Chemiluminescence from Porous Silicon	4	1232
Imaging for Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia	**Interface** by Secondary-Ion Mass Spectrometry Active Sites	9	3196
In Situ Characterization of the p-Si/NH4F	**Interface** during Dissolution in the Current Oscillations Regime	2	498
Method for Measuring Deep Levels in Thin Silicon-on-Insulator Layer Without Any	**Interface** Effects	10	3581
m Ultraclean Si/Si	**Interface** Formation by Surface Preparation and Direct Bonding in Ultrahigh Vacuu	5	1645
Segregation of Oxygen at a Solid/Liquid	**Interface** in Silicon	5	1692
t Reaction Process Electrochemical Oxidation in a CH4-H2O System at the	**Interface** of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. I. Determination o	3	920
ng Place in Parallel Electrochemical Oxidation in a CH4-H2O System at the	**Interface** of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. II. The Rates of E	9	3117
Morphological Changes at the	**Interface** of the Nickel-Yttria Stabilized Zirconia Point Electrode	7	2244

		Issue	Page
Chemical Formation of a Solid Electrolyte	**Interface** on the Carbon Electrode of a Li-Ion Cell	5	1506
ling of Oxygen Exchange and Transport in Air-Perovskite-Yttria-Stabilized Zirconia	**Interface** Regions. II. Direct Exchange of Oxygen Vacancies Mathematical	4	1390
Surface and	**Interface** Roughness of Ultrathin Nitric Oxide Oxynitride Gate Dielectric	1	L13
Heat Transfer, Fluid Flow, and	**Interface** Shapes in Zone Melting Processing with Induction Heating	11	3926
adiation Damaged Si:SiO2 Surfaces	**Interface** State Capture Cross Section Measurements on Vacuum Annealed and R	2	683
	Interface States Distribution in Electrical Stressed Oxynitrided Gate-Oxide	7	2489
Method for the Frumkin Adsorption Isotherms at the Pd/H2SO4 and KOH Solution	**Interfaces** The Phase-Shift	11	3794
Enhancement in Chemical Interaction at Conducting Polymers/n-Si	**Interfaces** by Their Electroreduction	2	711
Effect of Mixed-Conducting	**Interfacial** Layers on Solid Oxide Fuel Cell Anode Performance	5	1696
Composite Polymer Electrolytes with Improved Lithium Metal Electrode	**Interfacial** Properties. I. Electrochemical Properties of Dry PEO-LiX System	12	4126
Composite Polymer Electrolytes with Improved Lithium Metal Electrode	**Interfacial** Properties. II. Application in Rechargeable Batteries	12	4133
sence of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ EQCM and Phase Measurement	**Interferometric** Microscopy Electrochemical Behavior and Surface Morphol	7	2369
nvection along a Plane Vertical Anode Measured by Two-Wavelength Holographic	**Interferometry** Ionic Mass-Transfer Rates Associated with Natural Co	11	3814
lectroless Copper Film Formed on Ceramic Substrates Using ZnO Thin Film as an	**Intermediate** Layer Adhesion Mechanism of E	5	1430
Crystal Structure of Tetrabasic Lead Sulfate (4PbO.PbSO4). An	**Intermediate** Phase in the Production of Lead-Acid Batteries	2	528
de Ion Conductor. I. Doped SmCoO3 as a New Cathode Material	**Intermediate** Temperature Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxi	9	3177
Utilization of Hydrogen Sulfide in an	**Intermediate-Temperature** Ceria-Based Solid Oxide Fuel Cell	5	1449
Gradual Internal Methane Reforming in	**Intermediate-Temperature** Solid-Oxide Fuel Cells	10	3487
Mn0.7V0.5Ni1.2)0.92 Hydrogen-Storage Alloys Determination of	**Internal** Cell Pressures in Sealed Ni-MH Rechargeable Batteries Using Zr0.9Ti0.1(	10	3387
Gradual	**Internal** Methane Reforming in Intermediate-Temperature Solid-Oxide Fuel Cells	10	3487
Network Polymer Electrolytes with Free Chain Ends as	**Internal** Plasticizer	5	1521
Impact of Floating Gate Dopant Concentration and	**Interpoly** Dielectric Processing on Tunnel Dielectric Reliability	4	1351
Characterization of a 100 cm2 Class Molten Carbonate Fuel Cell with Current	**Interruption**	8	2747
Nucleation of Chromate Conversion Coating on Aluminum 2024-T3	**Investigated** by Atomic Force Microscopy	1	L11
ors Experimental Methods for	**Investigating** the Defect Properties of SiO2 in Metal Oxide Semiconductor Transist	10	3638
linear Phenomena during the Reduction of Hydrogen Peroxide in Alkaline Solution	**Involving** Mass Transfer Non	11	3857
An Investigation of Faradaic Admittance for Electrode Processes	**Involving** n State Variables Besides Electrode Potential	2	517
Preparation of Indium Hydroxy Sulfide	**Inx(OH)ySz** Thin Films by Chemical Bath Deposition	8	2775
lasma Etch Tool Use of Novel Hydrofluorocarbon and	**Iodofluorocarbon** Chemistries for a High Aspect Ratio Via Etch in a High Density P	12	4305
olution Process of a Gold Electrode in Perchloric Acid Solution Containing Chloride	**Ion** An In Situ Electrochemical Quartz Crystal Microbalance Study of the Dis	5	1614
Raman and Infrared Spectroscopy	**Ion** Association and Solvation Studies of LiClO4/Ethylene Carbonate Electrolyte by	10	3346
n Reduction Characteristics of Heat-Treated Catalysts Based on Cobalt-Porphyrin	**Ion** Complexes Oxyge	3	815
dity on a Potentiometric CO2 Gas Sensor Using a Combined Electrolyte of Sodium	**Ion** Conducting Glass and Stabilized Zirconia Influence of Humi	9	2981
ermediate Temperature Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxide	**Ion** Conductor. I. Doped SmCoO3 as a New Cathode Material Int	9	3177
	Ion Drift Processes in Pyrex-Type Alkali-Borosilicate Glass during Anodic Bonding	5	1755
Control of	**Ion** Energy in a Capacitively Coupled Reactive Ion Etcher	12	4247
Surface Roughness of Reactive	**Ion** Etched 4H-SiC in SF6/O2 and CHF3/H2/O2 Plasmas	4	L58
Reactive	**Ion** Etching of Silicon Containing Polynorbornenes	4	1257
Control of Ion Energy in a Capacitively Coupled Reactive	**Ion** Etcher	12	4247
High Temperature Reactive	**Ion** Etching of Indium-Tin Oxide with HBr and CH4 Mixtures	12	4313
Wet Etching of Al2O3 for Selective Patterning of Microstructures Using Ar+	**Ion** Implantation and H3PO4	1	344
Processes in Ultrathin Buried Oxide Synthesis Stimulated by Low Dose	**Ion** Implantation	8	2964
of a New Family of Boron-Based Anion Receptors and the Study of Their Effect on	**Ion** Pair Dissociation and Conductivity of Lithium Salts in Nonaqueous Solutions	8	2813
O2-Plasma Passivation Effects on Polysilicon Thin Film Transistors Using	**Ion** Plating Method	1	252
	Ion Potential Diagrams for Electrochromic Devices	12	4212
eous Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron Spectroscopy and	**Ion** Scattering Spectroscopy The Passivity of Fe/Si Alloys in Aqu	3	834
Electrogeneration of Hydroperoxide	**Ion** Using an Alkaline Fuel Cell	10	3444
of Electropolymerized Polyindole. Application in the Construction of a Solid-State,	**Ion-Selective** Electrode Characterization	12	4103
Current Efficiency of an	**Ion-Selective** Membrane: Effect of Fixed Charge Distribution	4	1088
Amorphous Nb/Fe-Oxide	**Ion-Storage** Films for Counter Electrode Applications in Electrochromic Devices	5	1607
thod Study of	**Ion-Transport** Properties in Polymer Electrolytes Using a Novel Electrochemical Me	3	744
Low Overvoltage Mechanism of High	**Ionic** Conducting Cathode for Solid Oxide Fuel Cell	3	L35
Effect of Microstructure and Composition on	**Ionic** Conductivity of Rare-Earth Oxide-Doped Ceria	2	638
tardant Polyacrylonitrile-Based Gel Electrolytes for Li Polymer Batteries An	**Ionic** Conductivity and Spectroscopic Study of Ionic Transport Mechanism in Fire-R	3	881
Anodization and Speciation of Magnesium in Chloride-Rich Room Temperature	**Ionic** Liquids	1	24
aluation of Transition Metal-Aluminum Alloy Electrodepositions in Chloroaluminate	**Ionic** Liquids Microelectrode Ev	5	1598
al Anode Measured by Two-Wavelength Holographic Interferometry	**Ionic** Mass-Transfer Rates Associated with Natural Convection along a Plane Vertic	11	3814
s for Li Polymer Batteries An Ionic Conductivity and Spectroscopic Study of	**Ionic** Transport Mechanism in Fire-Retardant Polyacrylonitrile-Based Gel Electrolyte	3	881
ods to Ag1.92Te Determination of Chemical Diffusion Coefficients of Mixed	**Ionic-Electronic** Conductors with Arbitrary Electronic Transport Numbers. Applicati	6	2179
Excitation Photocapacitance Study of	**Ionized** Levels in n-Type GaAs Observed during Photoquenching	8	2892
Proton Conductivity in Nafion 117 and in a Novel Bis[(perfluoroalkyl)sulfonyl]imide	**Ionomer** Membrane	1	107
Pitting in Aluminum Thin Films. Supersaturation and Effects of Dichromate	**Ions**	8	2834
Behavior of Polymeric Carbon Induced by Heat-Treatment and Doping with Lithium	**Ions** Changes in the Electrochemical	3	721
Adsorption of Metal	**Ions** onto Hydrophilic Silicon Surfaces from Aqueous Solution: Effect of pH	8	2841
as-Diffusion Electrodes. III. Simultaneous Reduction of Carbon Dioxide and Nitrite	**Ions** with Various Metal Catalysts Electrochemical Synthesis of Urea at G	2	595
as-Diffusion Electrodes. IV. Simultaneous Reduction of Carbon Dioxide and Nitrate	**Ions** with Various Metal Catalysts Electrochemical Synthesis of Urea at G	7	2348
Design and Simulation of a Reverse	**Iontophoretic** Glucose Monitoring Device	12	4119
Work Function and Catalytic Activity Measurements of an	**IrO2** Film Deposited on YSZ Subjected to In Situ Electrochemical Promotion	3	905
miconductive Properties of Sputter-Deposited Iron Oxides with the Passive Film on	**Iron** Comparison of the Se	2	378
he Effect of Electrolyte Properties on the Mechanism of Crevice Corrosion in Pure	**Iron** T	6	1862
Fast-Feedback	**Iron** Contamination Monitoring Using Surface Photovoltage Measurements	2	701
tures (SC1) on 5 nm Gate Oxides Impact of	**Iron** Contamination and Roughness Generated in Ammonia Hydrogen Peroxide Mix	7	2589
Acid Evolution and Entry of Hydrogen into	**Iron** during Cathodic Charging in Alkaline Solution with Ethylenediaminetetraacetic	4	1142
Reactivation of Passivated	**Iron** Electrodes in a Magnetic Field	7	2214
Effect of Surface	**Iron** on Photoconductivity Carrier Recombination Lifetime of p-Type Silicon	5	1724
Comparison of the Semiconductive Properties of Sputter-Deposited	**Iron** Oxides with the Passive Film on Iron	2	378
e Semiconducting Properties	**Iron** Passivity in Borate Buffer. Formation of a Deposit Layer and Its Influence on th	2	609
Electrodeposition of Amorphous Fe2O3 Films by Reduction of	**Iron** Perchlorate in Acetonitrile	2	385
Analysis of	**Iron** Precipitation in Silicon as a Basis for Gettering Simulations	12	4259
Gettering of	**Iron** to Implantation Induced Cavities and Oxygen Precipitates in Silicon	4	1400
r Oxygen Reduction. I. Characterization of the Electrocatalyst Heat-Treated	**Iron(III)** Tetramethoxyphenyl Porphyrin Supported on High-Area Carbon as an Elect	10	3493
The Pitting Behavior of	**Iron-Chromium** Thin Film Alloys in Hydrochloric Acid	5	1566
ng Characterizations of	**Iron-Containing** Clay Modified Electrodes and Their Applications for Glucose Sensi	1	154
Electrodeposition of	**Iron-Group** Metals and Binary Alloys from Sulfate Baths. I. Experimental Study	3	991
ce of Type 304 Stainless Steel by Modification of Passive Film with Ultraviolet Light	**Irradiation** Improvement of Pitting Corrosion Resistan	5	L79
erature Copper Etching Using an Inductively Coupled Plasma with Ultraviolet Light	**Irradiation** Low Temp	3	L37
t on the Structural Change in Amorphous and Crystalline GaAs with Brilliant X-Ray	**Irradiation** Using Synchrotron Radiation Inner-Shell Electron Excitation Effe	9	3063
e and Low Pressure	**Irregular** Surface and Porous Structure of SiO2 Films Deposited at Low Temperatur	7	2569
-Ion Batteries Reduction of the	**Irreversible** Capacity in Hard-Carbon Anode Materials Prepared from Sucrose for Li	6	1977
Excellent Electrical Characteristics of Ultrafine Trench	**Isolation**	5	1684
The Phase-Shift Method for the Frumkin Adsorption	**Isotherms** at the Pd/H2SO4 and KOH Solution Interfaces	11	3794
	Isotopic Effects in Cation-Injected Electrochromic Films	3	1023
Materials	**Issues** with Thin Film Hydrogen Silsesquioxane Low K Dielectrics	11	4019

— J —

Effect of Chlorine Species on Diamond Deposition from Plasma	**Jets** with Chlorobenzenes as Carbon Sources	8	2895
Nonohmic Current-Voltage Characteristics and Current-Induced Redox Behavior of	**Junctioned** SrTiO3 pO2-Dependent	4	1165

		Issue	Page
	— K —		
Lithiated Nickel Oxide Electrode Performance in Molten	**K2S2O7/V2O5** and K2SO4/V2O5 Systems	3	892
Lithiated Nickel Oxide Electrode Performance in Molten K2S2O7/V2O5 and	**K2SO4/V2O5** Systems	3	892
acitors	**Keggin-Type** Heteropolyacids as Electrode Materials for Electrochemical Supercap	3	737
lysis of Surface Carbon Contamination on Phosphated Zinc Surfaces by Scanning	**Kelvin** Probe Measurements Ana	3	L39
Characterization of AA2024-T3 by Scanning	**Kelvin** Probe Force Microscopy	7	2285
Corrosion Study of AA2024-T3 by Scanning	**Kelvin** Probe Force Microscopy and In Situ Atomic Force Microscopy Scratching	7	2295
	Kinetic Behavior of Metal Hydride Electrode by Means of AC Impedance	6	1801
Chemical Sensors with Catalytic Metal Gates. Switching Behavior and	**Kinetic** Phase Transitions	10	3401
Mass Transfer and	**Kinetic** Phenomena at the Nickel Hydroxide Electrode	11	3860
Thermodynamic and	**Kinetic** Study of the Li/MnO2.Bi2O3 Electrochemical Couple	3	L31
odes	**Kinetic** Study of the Formation of Oxygen Vacancy on Lanthanum Manganite Electr	2	373
	Kinetic Study of the Oxidation of Gallium Nitride in Dry Air	2	629
ethylsilane Precursors A	**Kinetic** Study of the Chemical Vapor Deposition of Silicon Carbide from Dichlorodim	4	1277
c Acid Growth	**Kinetics** and Morphology of Porous Anodic Alumina Films Formed Using Phosphori	8	2699
Growth	**Kinetics** of Chemical Vapor Deposition of Beta-SiC from (CH3)2SiCl2/Ar	7	2516
On the	**Kinetics** of Growth of Anodic Oxide Films	3	898
Thermodynamics and	**Kinetics** of Gas-Phase Reactions in the Ti-Cl-H System	6	2167
l Solid-State Reaction	**Kinetics** of LaCrO3 from the Oxides and Determination of La3+ Diffusion Coefficien	6	2090
rom Silane The	**Kinetics** of the Low-Pressure Chemical Vapor Deposition of Polycrystalline Silicon f	4	1318
e Chemical Vapor Deposition from TiCl4-NH3-H2	**Kinetics** of the Formation of Titanium Nitride Layers by Rapid Thermal Low Pressur	5	1672
ms	**Kinetics** of Vapor-Phase Electrolytic Deposition of Yttria-Stabilized Zirconia Thin Fil	12	4277
Convex Corners Aqueous	**KOH** Etching of Silicon (110). Etch Characteristics and Compensation Methods for	7	2499
Electrochemistry of TiN in 6 M	**KOH** Solution	4	1211
he Phase-Shift Method for the Frumkin Adsorption Isotherms at the Pd/H2SO4 and	**KOH** Solution Interfaces T	11	3794
Constant Voltage Anodizing of Mg-Al Alloys in	**KOH-Al(OH)3** Solutions	1	190
	Kolbe Electrolysis of Acetic Acid in a Polymer Electrolyte Membrane Reactor	11	3728
Transformation of Colored Random Noise by	**Kronig-Kramers** Transforms	2	L20
	— L —		
ectrometry Active Sites Imaging for Oxygen Reduction at the	**La0.9Sr0.1MnO3-x/Yttria-Stabilized** Zirconia Interface by Secondary-Ion Mass Sp	9	3196
	La1-xBaxCr1-yTiyO3 with Varied Oxygen Content	1	264
ium to LaMnO3 on the Electrode Properties Preparation of Perovskite-Type	**La1-xSrxMnO3** Films by Vapor-Phase Processes and Their Electrochemical Proper	6	1999
Solid-State Reaction Kinetics of LaCrO3 from the Oxides and Determination of	**La3+** Diffusion Coefficient	6	2090
The Role of Carbon Dioxide in the Atmospheric Corrosion of Zinc. A	**Laboratory** Study	1	39
The Influence of CO2 and NaCl on the Atmospheric Corrosion of Zinc. A	**Laboratory** Study	9	2993
on A	**Laboratory** Study of the Effect of Acetic Acid Vapor on Atmospheric Copper Corrosi	12	4140
Dry Etch Patterning of	**LaCaMnO3** and SmCo Thin Films	7	2512
s Sr- and Ni-Doped	**LaCoO3** and LaFeO3 Perovskites. New Cathode Materials for Solid-Oxide Fuel Cell	9	3220
Solid-State Reaction Kinetics of	**LaCrO3** from the Oxides and Determination of La3+ Diffusion Coefficient	6	2090
Sr- and Ni-Doped LaCoO3 and	**LaFeO3** Perovskites. New Cathode Materials for Solid-Oxide Fuel Cells	9	3220
l Intermediate Temperature Solid Oxide Fuel Cells Using a New	**LaGaO3** Based Oxide Ion Conductor. I. Doped SmCoO3 as a New Cathode Materia	9	3177
Processes and Their Electrochemical Properties. II. Effects of Doping Strontium to	**LaMnO3** on the Electrode Properties Preparation of Perovskite-Type La1-xS	6	1999
Determination of the Diffusion Coefficient and Phase-Transfer Rate Parameter in	**LaNi5** and MmNi3.6Co0.8Mn0.4Al0.3 Using Microelectrodes	11	3740
Synthesis and Properties of Mixed	**Lanthanide** Chromite Perovskites	12	4282
Kinetic Study of the Formation of Oxygen Vacancy on	**Lanthanum** Manganite Electrodes	2	373
% Yttria Stabilized Zirconia in the Improvement of Electrochemical Performance of	**Lanthanum** Manganite Composite Electrodes The Role of 8 mol	6	1932
A Study of Rapid Photothermal Annealing of Sputtered Lead	**Lanthanum** Zirconia Titanate Thin Films	12	4317
Protonic and Native Conduction in Sr-Substituted	**LaPO4** Studied by Thermoelectric Power Measurements	10	3313
sordered Carbons	**Large** Hysteresis during Lithium Insertion into and Extraction from High-Capacity Di	2	478
ntal Study of the Degradation of Mechanical Strength of Silicon Wafers Caused by	**Large** Scale Integration Processes Experime	9	3160
Todorokite as a Li Insertion Cathode. Comparison of a	**Large** Tunnel Framework "MnO2" Structure with Its Related Layered Structures	11	3746
ation Gravitational Stress-Induced Dislocations in	**Large-Diameter** Silicon Wafers Studied by X-Ray Topography and Computer Simul	7	2523
Novel Method for the Formation of	**Large-Grained**, Silicon Thin Films on Amorphous Substrates	11	3963
Cyclic Voltammetry of Pulsed	**Laser** Deposited LixMn2O4 Thin Films	9	2975
Effect of Metallic Contamination	**Laser** Microwave Photoconductance Studies of Ultraviolet-Irradiated Silicon Wafers.	1	329
dies of Leveling Effects of Thiourea on Copper Deposition Confocal	**Laser** Scanning Microscopy, Electrochemistry, and Quartz Crystal Microbalance Stu	3	957
Application of	**Laser-Cleaning** Technique for Efficient Removal of Via-Etch-Induced Polymers	11	3966
Dopant Effects on	**Lateral** Silicide Growth in Self-Aligned Titanium Silicide Process	10	3585
ectrochemical Properties of Over-stoichiometric ZrMn1-xVxNi1.4+y Alloys with C15	**Laves** Phase El	1	93
Evaluation of Zr(Ni,Mn)2	**Laves** Phase Alloys as Negative Active Material for Ni-MH Electric Vehicle Batteries	5	1478
pper Film Formed on Ceramic Substrates Using ZnO Thin Film as an Intermediate	**Layer** Adhesion Mechanism of Electroless Co	5	1430
Iron Passivity in Borate Buffer. Formation of a Deposit	**Layer** and Its Influence on the Semiconducting Properties	2	609
Formation of High Conductivity WSix	**Layer** and Its Characterization as a Gate Electrode	9	3228
Formation of Thin Films of CdTe, CdSe, and CdS by Electrochemical Atomic	**Layer** Epitaxy	5	1442
Atomic	**Layer** Epitaxy Growth of TiN Thin Films from TiI4 and NH3	8	2914
-heptanedionate/H2 Process Atomic	**Layer** Epitaxy of Copper. Growth and Selectivity in the Cu(II)-2,2,6,6-tetramethyl-3,5	8	2926
Optimization of the Growth of CdTe Thin Films Formed by Electrochemical Atomic	**Layer** Epitaxy in an Automated Deposition System	10	3594
W-Clad	**Layer** Formation on Heavily Doped p+-Si by Selective Chemical Vapor Deposition	12	4203
Effect of Low-Temperature Conditions on Passive	**Layer** Growth on Li Intercalation Materials. In Situ Impedance Study	8	2711
Method for Measuring Deep Levels in Thin Silicon-on-Insulator	**Layer** Without Any Interface Effects	10	3581
al Performance as Lithium Insertion Electrode Materials Characterization of	**Layered** Lithium Nickel Manganese Oxides Synthesized by a Novel Oxidative Copr	4	1113
ode. Comparison of a Large Tunnel Framework "MnO2" Structure with Its Related	**Layered** Structures Todorokite as a Li Insertion Cath	11	3746
Prediction of Li Intercalation and Battery Voltages in	**Layered** vs. Cubic LixCoO2	7	2424
of Prussian Blue Films Containing Concentration Gradients in Serial Mixed Valent	**Layers** Diode-Like Property	11	3788
ivstion of Cu by Sputter-Deposited Ta and Reactively Sputter-Deposited Ta-Nitride	**Layers** Pass	9	3170
Barrier Properties of Very Thin Ta and TaN	**Layers** Against Copper Diffusion	7	2538
Effects of Thermal N2 Annealing on Passivation Capability of Sputtered Ta(-N)	**Layers** Against Cu Oxidation	11	4029
Sputtered Cr and Reactively Sputtered CrNx Serving as Barrier	**Layers** Against Copper Diffusion	12	4290
3-H2 Kinetics of the Formation of Titanium Nitride	**Layers** by Rapid Thermal Low Pressure Chemical Vapor Deposition from TiCl4-NH	5	1672
A Study on the Microphysical Mechanisms of Adsorption in Polyimide	**Layers** for Microelectronic Applications	11	4012
Luminescence from Erbium-Doped Silicon Epi	**Layers** Grown by Liquid-Phase Epitaxy	1	L8
Chemical and Electrochemical Passivation of PbSe Thin	**Layers** Grown by Molecular Beam Epitaxy	2	512
Thickness Measurements of Epitaxial	**Layers** of Double Epitaxial Silicon Wafers by Far-Infrared Reflection	5	1720
Effect of Mixed-Conducting Interfacial	**Layers** on Solid Oxide Fuel Cell Anode Performance	5	1696
Oxygen Vacancies in SiO2	**Layers** on Si Produced at High Temperature	9	3157
sistance The Effect of the	**Lead** Alloy Hardening Process in Electric Vehicle Storage Batteries on Corrosion Re	9	3183
A Study of Rapid Photothermal Annealing of Sputtered	**Lead** Lanthanum Zirconia Titanate Thin Films	12	4317
Potentiostatic Oxide Formation on	**Lead** Selenide Single Crystals in Alkaline Solutions	8	2806
Batteries Crystal Structure of Tetrabasic	**Lead** Sulfate (4PbO.PbSO4). An Intermediate Phase in the Production of Lead-Acid	2	528
Positive Active Material Capacity in Lead- Acid Cells Through Control of the Basic	**Lead** Sulfate Precursor Optimization of the	10	3358
Optimization of the Positive Active Material Capacity in	**Lead**- Acid Cells Through Control of the Basic Lead Sulfate Precursor	10	3358
etrabasic Lead Sulfate (4PbO.PbSO4). An Intermediate Phase in the Production of	**Lead-Acid** Batteries Crystal Structure of T	2	528
Lowering of	**Leakage** Current Density of (Ba,Sr)TiO3 Thin Films by Pulse Injection Deposition	11	3884
Flow Modulation as a Means of Studying	**Leveling** Agents	2	560
canning Microscopy, Electrochemistry, and Quartz Crystal Microbalance Studies of	**Leveling** Effects of Thiourea on Copper Deposition Confocal Laser S	3	957

		Issue	Page
Blocking Inhibitors in Cathodic	**Leveling**. III. Electrochemical Impedance Spectroscopy Study	5	1561
Effects of Stoichiometry and Te Concentration on the Deep	**Levels** in Liquid-Phase Epitaxially Grown n-Type Al0.3Ga0.7As	8	2905
Excitation Photocapacitance Study of Ionized	**Levels** in n-Type GaAs Observed during Photoquenching	8	2892
Method for Measuring Deep	**Levels** in Thin Silicon-on-Insulator Layer Without Any Interface Effects	10	3581
LiMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New Class of 5 V Cathode Materials for	**Li Batteries**. I. Electrochemical, Structural, and Spectroscopic Studies	4	1238
LiCuxMn2-xO4 Spinels (0.1 x 0.5): A New Class of Cathode Materials for	**Li Batteries**. II. In Situ Measurements	10	3383
The Effect of Mass Transport on	**Li** Deposition and Dissolution	9	3094
Charge/Discharge Rates and Morphology, Surface Chemistry, and Performance of	**Li** Electrodes and the Connection to Cycle Life of Practical Batteries The Cor	5	1421
with Its Related Layered Structures Todorokite as a	**Li** Insertion Cathode. Comparison of a Large Tunnel Framework "MnO2" Structure	11	3746
Super Dense LiC2 as a High Capacity	**Li** Intercalation Anode	7	2377
Prediction of	**Li** Intercalation and Battery Voltages in Layered vs. Cubic LixCoO2	7	2424
Effect of Low-Temperature Conditions on Passive Layer Growth on	**Li** Intercalation Materials. In Situ Impedance Study	8	2711
Common Electroanalytical Behavior of	**Li** Intercalation Processes into Graphite and Transition Metal Oxides	9	3024
Transport Mechanism in Fire-Retardant Polyacrylonitrile-Based Gel Electrolytes for	**Li** Polymer Batteries An Ionic Conductivity and Spectroscopic Study of Ionic	3	881
The Reaction of Clean	**Li** Surfaces with Small Molecules in Ultrahigh Vacuum. II. Water	1	159
Thermodynamic Stability of Chemically Delithiated	**Li(LixMn2-x)O4**	2	569
fferential Scanning Calorimetry Study of the Reactivity of Carbon Anodes in Plastic	**Li-Ion** Batteries D	2	472
Characterization of Poly(vinyl chloride-co-vinyl acetate)-Based Gel Electrolytes for	**Li-Ion** Batteries Preparation and	4	1207
e Irreversible Capacity in Hard-Carbon Anode Materials Prepared from Sucrose for	**Li-Ion** Batteries Reduction of th	6	1977
Measurements Self-Discharge of LiMn2O4/C	**Li-Ion** Cells in Their Discharged State. Understanding by Means of Three-Electrode	1	194
Chemical Formation of a Solid Electrolyte Interface on the Carbon Electrode of a	**Li-Ion** Cell	5	1506
Electrochemistry of Anodes in Solid-State	**Li-Ion** Polymer Batteries	9	3135
Single-Electrode Peltier Heats of	**Li-Si** Alloy Electrodes in LiCl-KCl Eutectic Melt	6	1986
Thermodynamic and Kinetic Study of the	**Li/MnO2.Bi2O3** Electrochemical Couple	3	L31
Structure and Electrochemistry of	**Li2CrxMn2-xO4** for 1.0<x<1.5	3	851
Morphology Modification and Delithiation Mechanisms of LiMn2O4 and	**Li2MnO3** by Acid Digestion	1	16
Low Temperature Synthesis and Electrode Properties of	**Li4Mn5O12**	4	L83
lls Preparation of Micron-Sized	**Li4Ti5O12** and Its Electrochemistry in Polyacrylonitrile Electrolyte-Based Lithium Ce	8	2609
Electrodes The	**Li4Ti5O12//PAN** Electrolyte//LiMn2O4 Rechargeable Battery with Passivation-Free	8	2615
Growth of III-Nitrides on ZnO, LiGaO2, and	**LiAlO2** Substrates	7	2581
Super Dense	**LiC2** as a High Capacity Li Intercalation Anode	7	2377
Diffusion Coefficients of Cerium and Gadolinium in Molten	**LiCl-KCl**	1	84
Single-Electrode Peltier Heats of Li-Si Alloy Electrodes in	**LiCl-KCl** Eutectic Melt	6	1986
Electrochromism of Nanocrystalline TiO2 Films in Propylene Carbonate Solution of	**LiClO4** Time-Dependent	6	1982
Ion Association and Solvation Studies of	**LiClO4/Ethylene** Carbonate Electrolyte by Raman and Infrared Spectroscopy	10	3348
nd Polytetramethylene Glycol-Based Waterborne Polyurethane with the Addition of	**LiClO4/Propylene** Carbonate An Investigation of Composite Electrolytes by	10	3450
Synthesis of	**LiCoO2** by Decomposition and Intercalation of Hydroxides	3	887
Discharge Rate Capability of the	**LiCoO2** Electrode	2	482
es. II. In Situ Measurements	**LiCuxMn2-xO4** Spinels (0.1 x 0.5): A New Class of Cathode Materials for Li Batteri	10	3383
Surface Chemistry, and Performance of Li Electrodes and the Connection to Cycle	**Life** of Practical Batteries The Correlation Between Charge/Discharge Rates	5	1421
Temperature Dependence of Carrier Recombination	**Lifetime** in Si Wafers	9	3265
Detection of Metallic Contaminants on Silicon by Surface Sensitive Minority Carrier	**Lifetime** Measurements	7	2602
Effect of Surface Iron on Photoconductivity Carrier Recombination	**Lifetime** of p-Type Silicon	5	1724
Growth of III-Nitrides on ZnO,	**LiGaO2**, and LiAlO2 Substrates	7	2581
Temperature Copper Etching Using an Inductively Coupled Plasma with Ultraviolet	**Light** Irradiation Low	3	L37
istance of Type 304 Stainless Steel by Modification of Passive Film with Ultraviolet	**Light** Irradiation Improvement of Pitting Corrosion Res	5	L79
ispersed in High-Area Carbon in Aqueous Electrolytes In Situ Real-Time Pt	**LIII-Edge** X-Ray Absorption Spectra of Carbon Monoxide Adsorbed on Platinum Par	1	80
ilicides	**Limitation** of HF-Based Chemistry for Deep-Submicron Contact Hole Cleaning on S	9	3240
Rotating Hemispherical Electrode. Accurate Expressions for the	**Limiting** Current and the Convective Warburg Impedance	12	4189
Batteries. I. Electrochemical, Structural, and Spectroscopic Studies	**LiMn2-xCuxO4** Spinels (0.1 < x < 0.5): A New Class of 5 V Cathode Materials for Li	4	1238
Preparation and Electrochemical Characterization of Overlithiated Spinel	**LiMn2O4**	4	1131
Morphology Modification and Delithiation Mechanisms of	**LiMn2O4** and Li2MnO3 by Acid Digestion	1	16
Electrochemical Investigations of Cobalt-Doped	**LiMn2O4** as Cathode Material for Lithium-Ion Batteries	3	807
ity, and Effect of Bi Species Synthesis of MnO2 Phases from	**LiMn2O4** in Aqueous Acidic Media. Mechanisms of Phase Transformations, Reactiv	10	3392
Mechanism of the Electrochemical Insertion of Lithium into	**LiMn2O4** Spinels	2	459
e-Electrode Measurements Self-Discharge of	**LiMn2O4/C** Li-Ion Cells in Their Discharged State. Understanding by Means of Thre	1	194
In Situ X-Ray Study of	**LiMnO2**	8	2672
ction Synthesis of	**LiMnO2** with alpha-NaMnO2-Type Structure by a Mixed-Alkaline Hydrothermal Rea	4	L49
mensional Diffusion-Limited Regime	**Linear** Stability Analysis of Unsteady Galvanostatic Electrodeposition in the Two-Di	6	2016
Copper A New	**Liquid** Precursor with Improved Thermal Stability for Chemical Vapor Deposition of	1	362
Oxidation and Reduction of	**Liquid** SnPb (60/40) under Ambient and Vacuum Conditions	6	2138
Effect of Additives on the Viscosity of	**Liquid-Phase** Dimethylaluminum Hydride	2	L23
Luminescence from Erbium-Doped Silicon Epi Layers Grown by	**Liquid-Phase** Epitaxy	1	L8
Effects of Stoichiometry and Te Concentration on the Deep Levels in	**Liquid-Phase** Epitaxially Grown n-Type Al0.3Ga0.7As	8	2905
ion of Transition Metal-Aluminum Alloy Electrodepositions in Chloroaluminate Ionic	**Liquids** Microelectrode Evaluat	5	1598
odization and Speciation of Magnesium in Chloride-Rich Room Temperature Ionic	**Liquids** An	1	24
on Batteries Electrochemistry of Chemically	**Lithiated** NaV3O8: A Positive Electrode Material for Use in Rechargeable Lithium-I	2	421
/V2O5 Systems	**Lithiated** Nickel Oxide Electrode Performance in Molten K2S2O7/V2O5 and K2SO4	3	892
The Structure of a 3 V LixMnO2 Cathode and Its Change upon Electrochemical	**Lithiation**	10	3440
A 400 mAh/g Aerogel-like V2O5 Cathode for Rechargeable	**Lithium** Batteries	5	L73
Microstructural Features of alpha-MnO2 Electrodes for	**Lithium** Batteries	2	582
Low-Temperature Synthesized LiV3O8 as a Cathode Material for Rechargeable	**Lithium** Batteries	9	3057
An Advanced Tool for the Selection of Electrolyte Components for Rechargeable	**Lithium** Batteries	10	3482
Sulfamides and Glymes as Aprotic Solvents for	**Lithium** Batteries	10	3500
ally and Cathodically Stable Salt for Electrolytes of Lithium-Ion Cells	**Lithium** Bis[5-fluoro-2-olato-1-benzenesulfonato(2-)-O,O'] borate(1-), a New Anodic	2	L17
ron-Sized Li4Ti5O12 and Its Electrochemistry in Polyacrylonitrile Electrolyte-Based	**Lithium** Cells Preparation of Mic	8	2609
cture and Cathode Performance with Composition and Preparation Temperature of	**Lithium** Cobalt Nickel Oxide Changes in Stru	3	730
y Electrochemical Quartz Crystal Microbalance A Study of	**Lithium** Deposition-Dissolution Processes in a Few Selected Electrolyte Solutions b	8	2629
In Situ Raman Studies of Graphite Surface Structures during	**Lithium** Electrochemical Intercalation	3	765
Selective Wet Etching of	**Lithium** Gallate	5	L68
Studies of	**Lithium** Insertion in Ballmilled Sugar Carbons	1	62
Large Hysteresis during	**Lithium** Insertion into and Extraction from High-Capacity Disordered Carbons	2	478
ovel Oxidative Coprecipitation Method and Their Electrochemical Performance as	**Lithium** Insertion Electrode Materials Characterization of Layered Lithium Ni	4	1113
Lithium-7 Nuclear Magnetic Resonance Investigation of	**Lithium** Insertion in Hard Carbon	4	1179
eatment Temperature On the Reduction of	**Lithium** Insertion Capacity in Hard-Carbon Anode Materials with Increasing Heat-Tr	7	2252
Milling	**Lithium** Insertion in Carbon-Silicon Composite Materials Produced by Mechanical	8	2751
ers	**Lithium** Insertion into Disordered Carbons Prepared from Designed Organic Polym	9	3123
Impedance Study on the Electrochemical	**Lithium** Intercalation into Natural Graphite Powder	1	172
Computational Studies of	**Lithium** Intercalation in Model Graphite in the Presence of Tetrahydrofuran	10	3328
Mechanism of the Electrochemical Insertion of	**Lithium** into LiMn2O4 Spinels	2	459
emical Behavior of Polymeric Carbon Induced by Heat-Treatment and Doping with	**Lithium** Ions Changes in the Electroch	3	721
zation of Thin Films and Bulk Phases	**Lithium** Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characteri	12	4148
on Thin-Film Batteries	**Lithium** Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies	12	4160
nce Studies Modification of the	**Lithium** Metal Surface by Nonionic Polyether Surfactants: Quartz Crystal Microbala	7	2340
PEO-LiX System Composite Polymer Electrolytes with Improved	**Lithium** Metal Electrode Interfacial Properties. I. Electrochemical Properties of Dry	12	4126
ries Composite Polymer Electrolytes with Improved	**Lithium** Metal Electrode Interfacial Properties. II. Application in Rechargeable Batte	12	4133
mance as Lithium Insertion Electrode Materials Characterization of Layered	**Lithium** Nickel Manganese Oxides Synthesized by a Novel Oxidative Coprecipitatio	4	1113
The Thermal Stability of	**Lithium** Polymer Batteries	7	2327

			Issue	Page
In Situ Raman Spectroscopy of LixV2O5 in a	**Lithium** Rechargeable Battery		3	847
eceptors and the Study of Their Effect on Ion Pair Dissociation and Conductivity of	**Lithium** Salts in Nonaqueous Solutions	The Synthesis of a New Family of B	8	2813
pin Resonance Study of the Electrochemical Reduction of Electrolyte Solutions for	**Lithium** Secondary Batteries	Electron S	11	3757
In Situ Mossbauer Effect Studies of the Electrochemical Reaction of	**Lithium** with Mechanically Alloyed Sn2Fe		12	4195
arbon	**Lithium-7** Nuclear Magnetic Resonance Investigation of Lithium Insertion in Hard C		4	1179
Studies on Stannic Oxide as an Anode Material for	**Lithium-Ion** Batteries		1	59
hemically Lithiated NaV3O8: A Positive Electrode Material for Use in Rechargeable	**Lithium-Ion** Batteries	Electrochemistry of C	2	421
chniques Structural Evolution of LixMn2O4 in	**Lithium-Ion** Battery Cells Measured In Situ Using Synchrotron X-Ray Diffraction Te		2	466
Electrochemical Investigations of Cobalt-Doped LiMn2O4 as Cathode Material for	**Lithium-Ion** Batteries		3	807
raphite and Poly(3-n-hexylthiophene) as an Anode Active Material in Rechargeable	**Lithium-Ion** Batteries	Charge-Discharge Properties of Composite of Synthet	5	1415
ctrochemical Properties of GeS2-Based Glass-Polymer Composite Electrolytes for	**Lithium-Ion** Batteries	Ele	6	1949
Capacity Fade Mechanisms and Side Reactions in	**Lithium-Ion** Batteries		10	3647
)-O,O'] borate(1-), a New Anodically and Cathodically Stable Salt for Electrolytes of	**Lithium-Ion** Cells	Lithium Bis[5-fluoro-2-olato-1-benzenesulfonato(2-	2	L17
Chloroethylene Carbonate, a Solvent for	**Lithium-Ion** Cells, Evolving CO2 during Reduction		2	L27
r-Emmett-Teller Surface Area Graphites for	**Lithium-Ion** Cells: The Correlation of the First-Cycle Charge Loss with the Brunaue		2	428
Electrochemical-Calorimetric Studies of	**Lithium-Ion** Cells		5	1489
of the Dimensions of Vapor-Grown Carbon Fiber for Use as Negative Electrodes in	**Lithium-Ion** Rechargeable Cells	Optimization	1	210
Based on Acrylonitrile-Methyl Methacrylate-Styrene Terpolymers for Rechargeable	**Lithium-Polymer** Batteries	Polymer Electrolytes	6	1958
Raman Spectroelectrochemistry of a	**Lithium/Polymer** Electrolyte Symmetric Cell		9	3034
Low-Temperature Synthesized	**LiV3O8** as a Cathode Material for Rechargeable Lithium Batteries		9	3057
es Lithium Manganese Nickel Oxides	**Lix(MnyNi1-y)2-xO2**. I. Synthesis and Characterization of Thin Films and Bulk Phas		12	4148
Lithium Manganese Nickel Oxides	**Lix(MnyNi1-y)2-xO2**. II. Electrochemical Studies on Thin-Film Batteries		12	4160
Prediction of Li Intercalation and Battery Voltages in Layered vs. Cubic	**LixCoO2**		7	2424
First-Principles Evidence for Stage Ordering in	**LixCoO2**		6	2149
Diffraction Techniques Structural Evolution of	**LixMn2O4** in Lithium-Ion Battery Cells Measured In Situ Using Synchrotron X-Ray		2	466
Cyclic Voltammetry of Pulsed Laser Deposited	**LixMn2O4** Thin Films		9	2975
The Structure of a 3 V	**LixMnO2** Cathode and Its Change upon Electrochemical Lithiation		10	3440
In Situ Raman Spectroscopy of	**LixV2O5** in a Lithium Rechargeable Battery		3	847
Modeling Side Reactions in Composite	**LiyMn2O4** Electrodes		3	990
Oxide Integrity Optimization of Polysilicon Encapsulated	**Local** Oxidation of Silicon. Cavity Dimension Effects on Mechanical Stress and Gate		5	1653
Field Oxide Thinning Behavior in	**Local** Oxidation of Silicon Process under Enhanced Oxidation Conditions		5	1664
Impact of High-Temperature Dry	**Local** Oxidation on Gate Oxide Quality		7	2595
Effect of Aging on Yttria-Stabilized Zirconia. III. A Study of the Effect of	**Local** Structures on Conductivity		5	1550
Detection of	**Localized** Corrosion of Aluminum Alloys Using Fluorescence Microscopy		5	1571
Graphites for Lithium-Ion Cells: The Correlation of the First-Cycle Charge	**Loss** with the Brunauer-Emmett-Teller Surface Area		2	428
anine Decrease of Recombination	**Losses** in Bicomponent WO3/TiO2 Films Photosensitized with Cresyl Violet and Thi		11	3981
Extension of Dose Window for	**Low-Dose** Separation by Implanted Oxygen		5	1735
icate Oxide Film on a Boron Implant Profile The Effect of	**Low-Pressure** and Plasma-Enhanced Chemical Vapor Deposited Tetraethylorthosil		5	1677
N2O Mixtures Thermodynamic Study, Composition, and Microstructure of	**Low-Pressure** Chemical Vapor Deposited Silicon Dioxide Films Grown from TEOS/		4	1310
The Kinetics of the	**Low-Pressure** Chemical Vapor Deposition of Polycrystalline Silicon from Silane		4	1318
Investigation of Particle Generation during the	**Low-Pressure** Chemical Vapor Deposition of Borophosphosilicate Glass Films		6	2051
Design of Injection Feed Multiwafer	**Low-Pressure** Chemical Vapor Deposition Reactors		7	2494
Selective Titanium Silicide Deposition Using SiH4-TiCl4-H2 in	**Low-Pressure** Chemical Vapor Deposition and Film Characterization		11	3941
nium The Effects of Processing Parameters in the	**Low-Temperature** Chemical Vapor Deposition of Titanium Nitride from Tetraiodotita		2	676
s. In Situ Impedance Study Effect of	**Low-Temperature** Conditions on Passive Layer Growth on Li Intercalation Material		8	2711
hium Batteries	**Low-Temperature** Synthesized LiV3O8 as a Cathode Material for Rechargeable Lit		9	3057
Predicting and Modeling the	**Low-Voltage** Cathodoluminescent Efficiency of Oxide Phosphors		9	3165
Deposition	**Lowering** of Leakage Current Density of (Ba,Sr)TiO3 Thin Films by Pulse Injection		11	3884
Mechanism of	**Luminance** Decrease in BaMgAl10O17:Eu2+ Phosphor by Oxidation		11	3903
axy	**Luminescence** from Erbium-Doped Silicon Epi Layers Grown by Liquid-Phase Epit		1	L8
opper Comparison of Experiments with a	**Lumped** Parameter Model of the Plasma Assisted Chemical Vapor Deposition of C		2	694

— M —

polymerization Reaction Electroactive Materials Containing	**Macrocyclic** Pseudo-Crown Ether Cavities Electroformed from a Solid-State Electro		12	4110
	Macropore Formation in Highly Resistive p-Type Crystalline Silicon		8	2958
Anodization and Speciation of	**Magnesium** in Chloride-Rich Room Temperature Ionic Liquids		1	24
	Magnetic Field Effects on Nickel Electrodeposition		2	401
Reactivation of Passivated Iron Electrodes in a	**Magnetic** Field		7	2214
Electrochemical Study	**Magnetic** Field Effects on Nickel Electrodeposition. II. A Steady-State and Dynamic		12	4135
Gradient Control of	**Magnetic** Properties in Electroless-Deposited CoNiP Thin Films		1	134
Lithium-7 Nuclear	**Magnetic** Resonance Investigation of Lithium Insertion in Hard Carbon		4	1179
osition	**Magnetoresistance** Effect in Co-Ag and Co-Cu Alloy Films Prepared by Electrodep		2	565
Dielectric Properties of Radio Frequency	**Magnetron** Sputter Deposited Zirconium Titanate-Based Thin Films		1	358
Thin Films of Amorphous Germanium-Tin Alloys Prepared by Radio-Frequency	**Magnetron** Sputtering		4	1303
the Electrical Properties of SrBi2Ta2O9 Thin Films Deposited by Radio-Frequency	**Magnetron** Sputtering	Temperature Dependence of	4	1330
A 400	**mAh/g** Aerogel-like V2O5 Cathode for Rechargeable Lithium Batteries		5	L73
Phenomenological Theory of Electro-osmotic Effect and Water	**Management** in Polymer Electrolyte Proton-Conducting Membranes		8	2684
f Thin Films and Bulk Phases Lithium	**Manganese** Nickel Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization o		12	4148
Film Batteries Lithium	**Manganese** Nickel Oxides Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies on Thin-		12	4160
um Insertion Electrode Materials Characterization of Layered Lithium Nickel	**Manganese** Oxides Synthesized by a Novel Oxidative Coprecipitation Method and		4	1113
An Investigation of Capacity Fading of	**Manganese** Spinels Stored at Elevated Temperature		11	3704
bilized Zirconia in the Improvement of Electrochemical Performance of Lanthanum	**Manganite** Composite Electrodes	The Role of 8 mol % Yttria Sta	6	1932
Kinetic Study of the Formation of Oxygen Vacancy on Lanthanum	**Manganite** Electrodes		2	373
Applications Characterization of High Quality Nitrided Gate Dielectric Films	**Manufactured** in Reduced Pressure Furnace for Ultralarge Scale Integration Compl		5	1679
A New Inlet System for Differential Electrochemical	**Mass** Spectroscopy Applied to the Photocorrosion of p-InP(111) Single Crystals		2	576
tion at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia Interface by Secondary-Ion	**Mass** Spectrometry	Active Sites Imaging for Oxygen Reduc	9	3196
Sublimation Studies of SiC by Using a Quadrupole	**Mass** Spectrometer		10	3556
es	**Mass** Transport in Gas-Diffusion Electrodes: A Diagnostic Tool for Fuel-Cell Cathod		1	5
m Ultrasound	**Mass** Transport in Sonovoltammetry with Evidence of Hydrodynamic Modulation fro		6	1994
The Effect of	**Mass** Transport on Li Deposition and Dissolution		9	3094
enomena during the Reduction of Hydrogen Peroxide in Alkaline Solution Involving	**Mass** Transfer	Nonlinear Ph	11	3857
	Mass Transfer and Kinetic Phenomena at the Nickel Hydroxide Electrode		11	3860
ode Measured by Two-Wavelength Holographic Interferometry Ionic	**Mass-Transfer** Rates Associated with Natural Convection along a Plane Vertical An		11	3814
rge Distribution Current Distribution on a Rotating Disk Electrode below the	**Mass-Transfer-Limited** Current. Correction for Finite Schmidt Number and Determi		6	1940
Properties of Polyphenylquinoxaline Acid Complex as an Electrode	**Material**		4	1193
Electrosynthesis of Sodium Hydrosulfite. II. The Effect of Cathode	**Material**		12	4057
d Porous Mixture of Molybdenum Nitride and Tantalum Oxide as a Charge Storage	**Material**	Improve	4	L61
a New LaGaO3 Based Oxide Ion Conductor. I. Doped SmCoO3 as a New Cathode	**Material**	Intermediate Temperature Solid Oxide Fuel Cells Using	9	3177
Noise as a Diagnostic Tool for Semiconductor	**Material** and Device Characterization		6	2058
cursor Optimization of the Positive Active	**Material** Capacity in Lead- Acid Cells Through Control of the Basic Lead Sulfate Pre		10	3358
Studies on Stannic Oxide as an Anode	**Material** for Lithium-Ion Batteries		1	59
Electrochemistry of Chemically Lithiated NaV3O8: A Positive Electrode	**Material** for Use in Rechargeable Lithium-Ion Batteries		2	421
Electrochemical Investigations of Cobalt-Doped LiMn2O4 as Cathode	**Material** for Lithium-Ion Batteries		3	807
Evaluation of Zr(Ni,Mn)2 Laves Phase Alloys as Negative Active	**Material** for Ni-MH Electric Vehicle Batteries		5	1478
Low-Temperature Synthesized LiV3O8 as a Cathode	**Material** for Rechargeable Lithium Batteries		9	3057
Composite of Synthetic Graphite and Poly(3-n-hexylthiophene) as an Anode Active	**Material** in Rechargeable Lithium-Ion Batteries	Charge-Discharge Propertie	5	1415
Proton Diffusion in Nickel Hydroxide. Prediction of Active	**Material** Utilization		1	29

		Issue	Page
Novel Low k Dielectrics Based on Diamondlike Carbon	**Materials**	5	1649
Cl2-Based Inductively Coupled Plasma Etching of NiFe and Related	**Materials**	11	4025
tion Method and Their Electrochemical Performance as Lithium Insertion Electrode	**Materials** Characterization of Layered Lithium Nickel Manganese Oxides Sy	4	1113
Electrosynthesis of Sodium Hydrosulfite. III. Porous Cathode	**Materials** and Process Model	12	4062
a Solid-State Electropolymerization Reaction Electroactive	**Materials** Containing Macrocyclic Pseudo-Crown Ether Cavities Electroformed from	12	4110
Keggin-Type Heteropolyacids as Electrode	**Materials** for Electrochemical Supercapacitors	3	737
LiMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New Class of 5 V Cathode	**Materials** for Li Batteries. I. Electrochemical, Structural, and Spectroscopic Studies	4	1238
Behavior of Molybdenum Nitrides as	**Materials** for Electrochemical Capacitors. Comparison with Ruthenium Oxide	6	1882
Sr- and Ni-Doped LaCoO3 and LaFeO3 Perovskites. New Cathode	**Materials** for Solid-Oxide Fuel Cells	9	3220
LiCuxMn2-xO4 Spinels (0.1 x 0.5): A New Class of Cathode	**Materials** for Li Batteries. II. In Situ Measurements	10	3383
Effect of Low-Temperature Conditions on Passive Layer Growth on Li Intercalation	**Materials**. In Situ Impedance Study	8	2711
	Materials Issues with Thin Film Hydrogen Silsesquioxane Low K Dielectrics	11	4019
Effect of Anode	**Materials** on NF3 Formation	4	1160
Reduction of the Irreversible Capacity in Hard-Carbon Anode	**Materials** Prepared from Sucrose for Li-Ion Batteries	6	1977
Lithium Insertion in Carbon-Silicon Composite	**Materials** Produced by Mechanical Milling	8	2751
Tuning the Position of the Redox Couples in	**Materials** with NASICON Structure by Anionic Substitution	5	1518
On the Reduction of Lithium Insertion Capacity in Hard-Carbon Anode	**Materials** with Increasing Heat-Treatment Temperature	7	2252
istribution on Discharge Capacity A	**Mathematical** Model for Intercalation Electrode Behavior. I. Effect of Particle-Size D	3	771
ilized Zirconia Interface Regions. II. Direct Exchange of Oxygen Vacancies	**Mathematical** Modeling of Oxygen Exchange and Transport in Air-Perovskite-Yttria-	4	1390
n of Hydrogen Permeation Through Zinc-Nickel Alloys under Corroding Conditions.	**Mathematical** Model and Experimental Study Characterizatio	6	1907
A	**Mathematical** Model for the Initiation of Aluminum Etch Tunnels	9	3100
	Mathematical Modeling of Soft Baking in Photoresist Processing	12	4256
atrix Composites. I. Effect of the Dispersed Phase on Nucleation and Growth of the	**Matrix** Electrodeposited TI2O3-M	2	549
Characterization of 3 x 3	**Matrix** Arrays of Solution-Phase Electrochromic Cells	4	L55
of Electrochemical Noise by Power Spectral Density Applied to Corrosion Studies.	**Maximum** Entropy Method or Fast Fourier Transform? Analysis	8	2780
A Low Temperature Silicon-on-Insulator Fabrication Process Using Si	**MBE** on Double-Layer Porous Silicon	5	1668
Lithium Insertion in Carbon-Silicon Composite Materials Produced by	**Mechanical** Milling	8	2751
An Investigation of Slurry Chemistry Used in Chemical	**Mechanical** Planarization of Aluminum	6	2074
The Effects of Post Chemical	**Mechanical** Planarization Buffing on Defect Density of Tungsten and Oxide Wafers	12	4240
tistical Metrology Framework for Identifying Sources of Variation in Oxide Chemical	**Mechanical** Polishing A Novel Sta	3	1052
Wear-Contact Problems and Modeling of Chemical	**Mechanical** Polishing	6	2100
Present and Future Role of Chemical	**Mechanical** Polishing in Wafer Bonding	6	2198
ectrochemical Investigation of Tungsten Electrochemical Behavior during Chemical	**Mechanical** Polishing In Situ El	9	3190
Silicon Nitride Chemical	**Mechanical** Polishing Mechanisms	11	3919
of Polysilicon Encapsulated Local Oxidation of Silicon. Cavity Dimension Effects on	**Mechanical** Stress and Gate Oxide Integrity Optimization	5	1653
es Experimental Study of the Degradation of	**Mechanical** Strength of Silicon Wafers Caused by Large Scale Integration Process	9	3160
In Situ Mossbauer Effect Studies of the Electrochemical Reaction of Lithium with	**Mechanically** Alloyed Sn2Fe	12	4195
s as Oxygen Reduction Electrocatalysts. II. Electrochemical Stability and Proposed	**Mechanism** Sputtered Cobalt-Carbon-Nitrogen Thin Film	10	3513
ms Conduction	**Mechanism** and Temperature-Dependent Current-Voltage in (Ba, Sr)TiO3 Thin Fil	8	2853
Toward a Unified Reaction	**Mechanism** for Chemical Vapor Deposition of Copper	1	347
Hole Injection at the Silicon/Aqueous Electrolyte Interface: A Possible	**Mechanism** for Chemiluminescence from Porous Silicon	4	1232
ctrochemical and Photoelectrochemical Microscopy Elucidation of a Trigger	**Mechanism** for Pitting Corrosion of Stainless Steels Using Submicron Resolution S	8	2664
Reaction	**Mechanism** for the Thermal Decomposition of BCl3/H2 Gas Mixtures	9	3203
Batteries An Ionic Conductivity and Spectroscopic Study of Ionic Transport	**Mechanism** in Fire-Retardant Polyacrylonitrile-Based Gel Electrolytes for Li Polyme	3	881
Battery Performance	**Mechanism** of Alloy Corrosion and Consequences on Sealed Nickel-Metal Hydride	3	860
Oxygen-Induced Chemical Vapor Deposition	**Mechanism** of Amorphous Silica Film Formation from Tetraethoxysilane in Atomic	8	2866
The Effect of Electrolyte Properties on the	**Mechanism** of Crevice Corrosion in Pure Iron	6	1862
Thin Film as an Intermediate Layer Adhesion	**Mechanism** of Electroless Copper Film Formed on Ceramic Substrates Using ZnO	5	1430
The	**Mechanism** of Electropolishing of Titanium in Methanol-Sulfuric Acid Electrolytes	7	2362
Low Overvoltage	**Mechanism** of High Ionic Conducting Cathode for Solid Oxide Fuel Cell	3	L35
	Mechanism of Luminance Decrease in BaMgAl10O17:Eu2+ Phosphor by Oxidation	11	3903
F3	**Mechanism** of Particle Growth of a BaMgAl10O17:Eu2+ Phosphor by Firing with Al	11	3898
The	**Mechanism** of the Oxidative Dissolution of Colloidal Gold in Cyanide Media	2	408
	Mechanism of the Electrochemical Insertion of Lithium into LiMn2O4 Spinels	2	459
s The	**Mechanism** of the Transpassive Dissolution of Chromium in Acidic Sulfate Solution	6	2043
lly Promoted Addition of Nitromethane to Aldehydes and Exploratory Studies of the	**Mechanism** of the Electrochemical Reduction of the Nitroolefins so Produced	8	2768
Silicon Nitride Chemical Mechanical Polishing	**Mechanisms**	11	3919
Self-Discharge of Sealed Nickel-Metal Hydride Batteries.	**Mechanisms** and Improvements	3	844
Capacity Fade	**Mechanisms** and Side Reactions in Lithium-Ion Batteries	10	3647
A Study on the Microphysical	**Mechanisms** of Adsorption in Polyimide Layers for Microelectronic Applications	11	4012
scharge Oxidation Processes	**Mechanisms** of Film Growth Rate Enhancement in Anodic and Cathodic Corona-Di	8	2944
Morphology Modification and Delithiation	**Mechanisms** of LiMn2O4 and Li2MnO3 by Acid Digestion	1	16
Synthesis of MnO2 Phases from LiMn2O4 in Aqueous Acidic Media.	**Mechanisms** of Phase Transformations, Reactivity, and Effect of Bi Species	10	3392
PbO2 Anode	**Mechanistic** Aspects of Phenol Electrochemical Degradation by Oxidation on a Ta/	10	3427
	Mechanistic Studies on the Electrodeposition of ZnTe	1	337
loride Films from Oxygenated Aqueous Zinc Chloride Solutions	**Mechanistic** Study of Cathodic Electrodeposition of Zinc Oxide and Zinc Hydroxych	3	864
olymer and Inorganic Conductor Films	**Mechanistic** Studies of CO2 Reduction on a Mediated Electrode with Conducting P	11	3801
The Mechanism of the Oxidative Dissolution of Colloidal Gold in Cyanide	**Media**	2	408
Synthesis of MnO2 Phases from LiMn2O4 in Aqueous Acidic	**Media**. Mechanisms of Phase Transformations, Reactivity, and Effect of Bi Species	10	3392
Mechanistic Studies of CO2 Reduction on a	**Mediated** Electrode with Conducting Polymer and Inorganic Conductor Films	11	3801
es on Performance of Ceria-Based Anodes High-Performance Electrode for	**Medium-Temperature** Solid Oxide Fuel Cells. Effects of Composition and Microstru	2	615
Single-Electrode Peltier Heats of Li-Si Alloy Electrodes in LiCl-KCl Eutectic	**Melt**	6	1986
Heat Transfer, Fluid Flow, and Interface Shapes in Zone	**Melting** Processing with Induction Heating	11	3926
ical Study on the Cationic Promotion of the Catalytic SO2 Oxidation in Pyrosulfate	**Melts** Electrochem	11	3721
Evaporation of Oxygen-Containing Species from Boron-Doped Silicon	**Melts**	7	2548
Oxygen Solubilities in Si	**Melts**: The Influence of Carbon Addition	1	319
onductivity in Nafion 117 and in a Novel Bis[(perfluoroalkyl)sulfonyl)]imide Ionomer	**Membrane** Proton C	1	107
Negative Impedance of the Nafion	**Membrane** Between Two Electrolyte Solutions	8	2740
Current Efficiency of an Ion-Selective	**Membrane**: Effect of Fixed Charge Distribution	4	1088
An Along-the-Channel Model for Proton Exchange	**Membrane** Fuel Cells	4	1149
Kolbe Electrolysis of Acetic Acid in a Polymer Electrolyte	**Membrane** Reactor	11	3728
-osmotic Effect and Water Management in Polymer Electrolyte Proton-Conducting	**Membranes** Phenomenological Theory of Electro	8	2684
ructure and Oxygen Permeability of SrCo(Fe,M)O3-delta (M = Cu or Cr) Perovskite	**Membranes** Ceramic Microst	4	1363
Proton and Methanol Transport in Poly(perfluorosulfonate)	**Membranes** Containing Cs+ and H+ Cations	11	3798
idification and Suppression of Gas Crossover in Pt-Dispersed Polymer Electrolyte	**Membranes** for Fuel Cells Analyses of Self-Hum	4	1137
Behavior of Raipore Radiation-Grafted Polymer	**Membranes** in H2/O2 Fuel Cells	3	780
y of Capillary Porous Structure and Sorption Properties of Nafion Proton-Exchange	**Membranes** Swollen in Water A Stud	8	2677
High Temperature Barrier Electrode Technology for High Density Ferroelectric	**Memories** with Stacked Capacitor Structure	7	2563
emispherical Grain Polycrystalline Silicon for Advanced Dynamic Random Access	**Memory** Application Optical Monitoring of Capacitance in H	11	3935
trodes. III. Simultaneous Reduction of Carbon Dioxide and Nitrite Ions with Various	**Metal** Catalysts Electrochemical Synthesis of Urea at Gas-Diffusion Elec	2	595
rodes. IV. Simultaneous Reduction of Carbon Dioxide and Nitrate Ions with Various	**Metal** Catalysts Electrochemical Synthesis of Urea at Gas-Diffusion Elect	7	2348
An Optical Method for Monitoring	**Metal** Contamination during Aqueous Processing of Silicon Wafers	5	1688
Formation of Catalytic Pd on ZnO Thin Films for Electroless	**Metal** Deposition	10	3378
System Composite Polymer Electrolytes with Improved Lithium	**Metal** Electrode Interfacial Properties. I. Electrochemical Properties of Dry PEO-LiX	12	4126
Composite Polymer Electrolytes with Improved Lithium	**Metal** Electrode Interfacial Properties. II. Application in Rechargeable Batteries	12	4133
Optimization of SiON Film Compositions for Encapsulation of Refractory	**Metal** Gate GaAs Metal-Semiconductor Field Effect Transistor	1	323
Chemical Sensors with Catalytic	**Metal** Gates. Switching Behavior and Kinetic Phase Transitions	10	3401
Kinetic Behavior of	**Metal** Hydride Electrode by Means of AC Impedance	6	1801

		Issue	Page
ensity	Theoretical Analysis of	**Metal** Hydride Electrodes. Studies on Equilibrium Potential and Exchange Current D	12	4082
	The Electrochemical Performance of Pd-Coated	**Metal** Hydride Electrodes with Different Binding Additives in Alkaline Solution	12	4169
	Adsorption of	**Metal** Ions onto Hydrophilic Silicon Surfaces from Aqueous Solution: Effect of pH	8	2841
	Electrical Characterization of 6H-SiC	**Metal** Oxide Semiconductor Structures at High Temperature	1	299
	Surface State Generation of Mo Gate	**Metal** Oxide Semiconductor Devices Caused by Mo Penetration into Gate Oxide	4	1297
red in Reduced Pressure Furnace for Ultralarge Scale Integration Complementary		**Metal** Oxide Semiconductor Applications Characterization of High Quality Nit	5	1679
e Considerations of Using Elevated Source/Drain Technology for Deep Submicron		**Metal** Oxide Semiconductor Field Effect Transistors Parasitic Resistanc	6	2131
lectroanalytical Behavior of Li Intercalation Processes into Graphite and Transition		**Metal** Oxides Common E	9	3024
Experimental Methods for Investigating the Defect Properties of SiO2 in		**Metal** Oxide Semiconductor Transistors	10	3638
Sealing of Anodized Aluminum Alloys with Rare Earth		**Metal** Salt Solutions	8	2792
Methanol Tolerant Oxygen Reduction Catalysts Based on Transition		**Metal** Sulfides	10	3463
ies	Modification of the Lithium	**Metal** Surface by Nonionic Polyether Surfactants: Quartz Crystal Microbalance Stud	7	2340
al Stability of CoSi2 on Polycrystalline Silicon: The Effect of Silicon Grain Size and		**Metal** Thickness The Therm	4	1384
Microelectrode Evaluation of Transition		**Metal-Aluminum** Alloy Electrodepositions in Chloroaluminate Ionic Liquids	5	1598
Concentration Dependence on Boron Diffusion in Thin Silicon Oxynitrides Used for		**Metal-Oxide-Semiconductor** Devices Nitrogen	2	689
ation of SiON Film Compositions for Encapsulation of Refractory Metal Gate GaAs		**Metal-Semiconductor** Field Effect Transistor Optimiz	1	323
rowave Photoconductance Studies of Ultraviolet-Irradiated Silicon Wafers. Effect of		**Metallic** Contamination Laser Mic	1	329
surements	Detection of	**Metallic** Contaminants on Silicon by Surface Sensitive Minority Carrier Lifetime Mea	7	2602
Fabrication and Characterization of Uniform		**Metallic** Nanostructures Using Nanochannel Glass	1	247
Effect of TiN Microstructure on Diffusion Barrier Properties in Cu		**Metallization**	6	2184
Fabrication of Ag/Y2O3-Stabilized ZrO2 Composite Films by		**Metallorganic** Chemical Vapor Deposition	1	L4
Effect of O2 Addition on the Deposition of Pt Thin Films by		**Metallorganic** Chemical Vapor Deposition	3	1066
um	Effect of the Gas-Phase Reaction in	**Metallorganic** Chemical Vapor Deposition of TiN from Tetrakis(dimethylamido)titani	7	2453
Modeling and Process Optimization of ZnSe and ZnS Epitaxial Growth in a Vertical		**Metallorganic** Vapor-Phase Epitaxy Reactor	8	2887
Pitting Corrosion of		**Metals**. A Review of the Critical Factors	6	2186
Electrodeposition of Iron-Group		**Metals** and Binary Alloys from Sulfate Baths. I. Experimental Study	3	981
Wear-Accelerated Corrosion of Passive		**Metals** in Tribocorrosion Systems	3	750
		Metastable Pitting and the Critical Pitting Temperature	8	2622
Various Phases Appearing in the CeZrO4-CeZrO3.5 System and the Formation of		**Metastable** Solid Solutions Thermodynamic Behavior of	4	1406
Polymer Electrolytes Based on Acrylonitrile-Methyl		**Methacrylate-Styrene** Terpolymers for Rechargeable Lithium-Polymer Batteries	6	1958
Gradual Internal		**Methane** Reforming in Intermediate-Temperature Solid-Oxide Fuel Cells	10	3487
,2-Ethanediol, and D-Glucose over a Pt-Ruads Surface Optimized for Oxidation of		**Methanol** Deposition of Ru Adatoms on Pt Using Organometallic Chemistry.	12	4182
The Electrocatalytic Oxidation of		**Methanol** at Finely Dispersed Platinum Nanoparticles in Polypyrrole Films	1	124
position of Ru Adatoms on Pt Using Organometallic Chemistry. Electro-oxidation of		**Methanol**, Ethanol, 1,2-Ethanediol, and D-Glucose over a Pt-Ruads Surface Optimi	12	4182
A Methanol Sensor for Portable Direct		**Methanol** Fuel Cells	11	3783
A		**Methanol** Sensor for Portable Direct Methanol Fuel Cells	11	3783
		Methanol Tolerant Oxygen Reduction Catalysts Based on Transition Metal Sulfides	10	3463
Cations	Proton and	**Methanol** Transport in Poly(perfluorosulfonate) Membranes Containing Cs+ and H+	11	3798
The Mechanism of Electropolishing of Titanium in		**Methanol-Sulfuric** Acid Electrolytes	7	2362
Application of Hydrogen Diffusion Anodes in Electrolytic Processes Using		**Methanol-Water** Mixtures	5	1502
The Superiority of Asymmetric Alkyl		**Methyl** Carbonates	1	L1
Deposition and Chemical Composition of Silicon Oxynitride from		**Methylsilazane** in Ammonia and Nitrous Oxide	6	1902
In Situ Characterization of		**Methylsilsesquioxane** Curing	11	4007
nical Polishing	A Novel Statistical	**Metrology** Framework for Identifying Sources of Variation in Oxide Chemical Mecha	3	1052
Constant Voltage Anodizing of		**Mg-Al** Alloys in KOH-Al(OH)3 Solutions	1	190
pment		**Micro-Macroscopic** Coupled Modeling of Batteries and Fuel Cells. I. Model Develo	10	3407
Nickel-Cadmium and Nickel-Metal Hydride Cells		**Micro-Macroscopic** Coupled Modeling of Batteries and Fuel Cells. II. Application to	10	3418
ocesses in a Few Selected Electrolyte Solutions by Electrochemical Quartz Crystal		**Microbalance** A Study of Lithium Deposition-Dissolution Pr	8	2629
chemically Precipitated Nickel Hydroxides Using an Electrochemical Quartz Crystal		**Microbalance** A Study on the Phase Transformation of Electro	2	507
Quartz Crystal		**Microbalance** Investigation of Electrochemical Calcium Carbonate Scaling	7	2386
Effect of Current Distribution on Quartz Crystal		**Microbalance** Measurements	2	492
Confocal Laser Scanning Microscopy, Electrochemistry, and Quartz Crystal		**Microbalance** Studies of Leveling Effects of Thiourea on Copper Deposition	3	957
Electrochemical Quartz Crystal		**Microbalance** Studies of Polypyrrole Growth on Self-Assembled Nucleation Sites	5	1483
Solution Containing Chloride Ion	An In Situ Electrochemical Quartz Crystal	**Microbalance** Study of the Dissolution Process of a Gold Electrode in Perchloric Aci	5	1614
tion of the Lithium Metal Surface by Nonionic Polyether Surfactants: Quartz Crystal		**Microbalance** Studies Modifica	7	2340
Acid Solutions	Electrochemical Quartz Crystal	**Microbalance** Studies of Poly(ortho-toluidine) Films Exposed to Aqueous Perchloric	8	2640
Copper Deposition in the Presence of Polyethylene Glycol. I. Quartz Crystal		**Microbalance** Study	10	3472
th Polyion Complexes	Highly Sensitive	**Microbiosensor** for Creatinine Based on the Combination of Inactive Polypyrrole wi	2	406
nhanced Chemical Vapor Deposition		**Microcrystalline** Silicon Film Deposition from H2-He-SiH4 Using Remote Plasma E	8	2900
Chloroaluminate Ionic Liquids		**Microelectrode** Evaluation of Transition Metal-Aluminum Alloy Electrodepositions in	5	1598
Preparation of a Gold-Sputtered Optical Fiber as a		**Microelectrode** for Electrochemical Microscopy	6	2011
nd Phase-Transfer Rate Parameter in LaNi5 and MmNi3.6Co0.8Mn0.4Al0.3 Using		**Microelectrodes** Determination of the Diffusion Coefficient a	11	3740
irect Electrochemical Detection of C60 in Solution by Steady-State Voltammetry at		**Microelectrodes** D	4	1227
A Study on the Microphysical Mechanisms of Adsorption in Polyimide Layers for		**Microelectronic** Applications	11	4012
Studies on Electroless Cobalt Coatings for		**Microencapsulation** of Hydrogen Storage Alloys	9	3000
urface Finishing of High Speed Print Bands. I. A Prototype Tool for Electrochemical		**Microfinishing** and Character Rounding of Print Bands S	9	3047
Surface Finishing of High Speed Print Bands. II. An Electrochemical Process for		**Microfinishing** of Hardened Fe-13Cr Stainless Steel	9	3052
Electrodeposition of Copper under		**Microgravity** Conditions	6	1876
		Micromachining of Tin Oxide Film by Electrochemical Reduction Process	9	3067
sed Lithium Cells	Preparation of	**Micron-Sized** Li4Ti5O12 and Its Electrochemistry in Polyacrylonitrile Electrolyte-Ba	8	2609
pplications	A Study on the	**Microphysical** Mechanisms of Adsorption in Polyimide Layers for Microelectronic A	11	4012
ses	Change in	**Microroughness** of a Silicon Surface during In Situ Cleaning Using HF and HCl Ga	12	4264
rication of Small Palladium Clusters on Au(111) Electrodes with a Scanning Tunnel		**Microscope** Nanofab	3	L33
Electro-oxidative Deposition of C60 via Scanning Electrochemical		**Microscope**	2	503
Characterization of AA2024-T3 by Scanning Kelvin Probe Force		**Microscopy**	7	2285
Using Submicron Resolution Scanning Electrochemical and Photoelectrochemical		**Microscopy** Elucidation of a Trigger Mechanism for Pitting Corrosion of Stai	8	2664
mercapto-1,3,4-thiadiazole. In Situ EQCM and Phase Measurement Interferometric		**Microscopy** Electrochemical Behavior and Surface Morphologic Changes of	7	2369
uential Observation of Electroless Copper Deposition via Noncontact Atomic Force		**Microscopy** Seq	9	3301
hromate Conversion Coating on Aluminum 2024-T3 Investigated by Atomic Force		**Microscopy** Nucleation of C	1	L11
paration of a Gold-Sputtered Optical Fiber as a Microelectrode for Electrochemical		**Microscopy** Pre	6	2011
Detection of Localized Corrosion of Aluminum Alloys Using Fluorescence		**Microscopy**	5	1571
Corrosion Study of AA2024-T3 by Scanning Kelvin Probe Force		**Microscopy** and In Situ Atomic Force Microscopy Scratching	7	2295
ocorrosion of Coupled CdS/CdSe Photoelectrodes Coated with ZnO. Atomic Force		**Microscopy** and X-Ray Diffraction Studies Phot	10	3535
g Effects of Thiourea on Copper Deposition	Confocal Laser Scanning	**Microscopy**, Electrochemistry, and Quartz Crystal Microbalance Studies of Levelin	3	957
on	Atomically Resolved Scanning Tunneling	**Microscopy** Images of InP(001), (111)A, and (111)B Surfaces in Sulfuric Acid Soluti	9	3090
nterface	Scanning Force	**Microscopy** Investigation of Surface Forces at the Tungsten Oxide/Lithium Borate I	2	669
f AA2024-T3 by Scanning Kelvin Probe Force Microscopy and In Situ Atomic Force		**Microscopy** Scratching Corrosion Study o	7	2295
Surfaces	X-Ray Photoelectron Spectroscopy and Scanning Tunneling	**Microscopy** Study of Passive Films Formed on (100) Fe-18Cr-13Ni Single-Crystal	3	909
uded Zone Thickness from Surface Photovoltage Measurements. Comparison with		**Microscopy** Techniques Den	5	1632
Scanning Electrochemical		**Microscopy** with Simultaneous Independent Topography	4	L64
ctric Fields		**Microstructural** Changes in a Polycrystalline, Semiconducting Oxide under DC Ele	12	4243
		Microstructural Features of alpha-MnO2 Electrodes for Lithium Batteries	2	582
Ceria	Effect of	**Microstructure** and Composition on Ionic Conductivity of Rare-Earth Oxide-Doped	2	638
rovskite Membranes	Ceramic	**Microstructure** and Oxygen Permeability of SrCo(Fe,M)O3-delta (M = Cu or Cr) Pe	4	1363
	Fibrous and Porous	**Microstructure** Formation in 6H-SiC by Anodization in HF Solution	7	2456
s	Toward Efficient Electrochromic NiOx Films. A Study of	**Microstructure**, Morphology, and Stoichiometry of Radio-Frequency Sputtered Film	1	235
rown from TEOS/N2O Mixtures	Thermodynamic Study, Composition, and	**Microstructure** of Low-Pressure Chemical Vapor Deposited Silicon Dioxide Films G	4	1310
	Effect of Aging on Yttria-Stabilized Zirconia. II. A Study of the Effect of the	**Microstructure** on Conductivity	5	1536

		Issue	Page
Effect of TiN	**Microstructure** on Diffusion Barrier Properties in Cu Metallization	6	2164
A Finite Element Study on the Grain Boundary Impedance of Different	**Microstructures**	6	2081
trode for Medium-Temperature Solid Oxide Fuel Cells. Effects of Composition and	**Microstructures** on Performance of Ceria-Based Anodes High-Performance	2	615
Wet Etching of Al2O3 for Selective Patterning of	**Microstructures** Using Ar+ Ion Implantation and H3PO4	1	344
t of Metallic Contamination Laser	**Microwave** Photoconductance Studies of Ultraviolet-Irradiated Silicon Wafers. Effec	1	329
High-Concentration Arsenic-Doped Silicon Hydrogenated by	**Microwave** Plasma	3	1028
ral Investigation of the Bias-Enhanced Nucleation and Growth of Diamond Films by	**Microwave** Plasma Chemical Vapor Deposition Structu	6	2095
Decomposition of Trichloroethylene by	**Microwave-Induced** Plasma Generated from SiC Whiskers	1	229
Lithium Insertion in Carbon-Silicon Composite Materials Produced by Mechanical	**Milling**	8	2751
Detection of Metallic Contaminants on Silicon by Surface Sensitive	**Minority** Carrier Lifetime Measurements	7	2602
Chemical Diffusion Through Grain Boundaries in	**Mixed** Conductors	5	1762
ic Methods to Ag1.92Te Determination of Chemical Diffusion Coefficients of	**Mixed** Ionic-Electronic Conductors with Arbitrary Electronic Transport Numbers. Ap	6	2179
Synthesis and Properties of	**Mixed** Lanthanide Chromite Perovskites	12	4282
-Like Property of Prussian Blue Films Containing Concentration Gradients in Serial	**Mixed** Valent Layers Diode	11	3788
Synthesis of LiMnO2 with alpha-NaMnO2-Type Structure by a	**Mixed-Alkaline** Hydrothermal Reaction	4	L49
Effect of	**Mixed-Conducting** Interfacial Layers on Solid Oxide Fuel Cell Anode Performance	5	1696
Equivalent Circuit Approximation to Porous	**Mixed-Conducting** Oxygen Electrodes in Solid-State Cells	1	142
LiClO4/Propylene Carbonate An Investigation of Composite Electrolytes by	**Mixing** Polyethylene Oxide- and Polytetramethylene Glycol-Based Waterborne Poly	10	3450
The Corrosion of Mo-Al Alloys in a H2/H2S/H2O Gas	**Mixture** at 600-1000 C	7	2265
Improved Porous	**Mixture** of Molybdenum Nitride and Tantalum Oxide as a Charge Storage Material	4	L61
High Temperature Reactive Ion Etching of Indium-Tin Oxide with HBr and CH4	**Mixtures**	12	4313
tion of Hydrogen Diffusion Anodes in Electrolytic Processes Using Methanol-Water	**Mixtures** Applica	5	1502
ous Film Removal Using High Pressure, High Temperature Water, and Water/CO2	**Mixtures** Surface Cleaning and Carbonace	1	284
te and Transient Behavior of Thick-Film Tin Oxide Sensors in the Presence of Gas	**Mixtures** Steady-Sta	5	1772
Pressure Chemical Vapor Deposited Silicon Dioxide Films Grown from TEOS/N2O	**Mixtures** Thermodynamic Study, Composition, and Microstructure of Low-	4	1310
Reaction Mechanism for the Thermal Decomposition of BCl3/H2 Gas	**Mixtures**	9	3203
of Iron Contamination and Roughness Generated in Ammonia Hydrogen Peroxide	**Mixtures** (SC1) on 5 nm Gate Oxides Impact	7	2589
Thermoelectricity of Two-Phase	**Mixtures**, Each with a Different Type Charge Carrier, p-NiO/n-ZnO	3	1008
Passivity and Breakdown of Carbon Steel in Organic Solvent	**Mixtures** of Propylene Carbonate and Dimethoxyethane	7	2396
ation of the Diffusion Coefficient and Phase-Transfer Rate Parameter in LaNi5 and	**MmNi3.6Co0.8Mn0.4Al0.3** Using Microelectrodes Determin	11	3740
Factors Affecting the Stabilization of	**Mn** Spinel Capacity upon Storing and Cycling at High Temperatures	8	2726
sformations, Reactivity, and Effect of Bi Species Synthesis of	**MnO2** Phases from LiMn2O4 in Aqueous Acidic Media. Mechanisms of Phase Tran	10	3392
Todorokite as a Li Insertion Cathode. Comparison of a Large Tunnel Framework	**"MnO2"** Structure with Its Related Layered Structures	11	3746
Oxide Surface State Generation of	**Mo** Gate Metal Oxide Semiconductor Devices Caused by Mo Penetration into Gate	4	1297
face State Generation of Mo Gate Metal Oxide Semiconductor Devices Caused by	**Mo** Penetration into Gate Oxide Sur	4	1297
The Corrosion of	**Mo-Al** Alloys in a H2/H2S/H2O Gas Mixture at 800-1000 C	7	2265
Reliability Improvement of AlInAs/GaInAs High Electron	**Mobility** Transistors by Fluorine Incorporation Control	8	2951
High Density Plasma Damage in InGaP/GaAs and AlGaAs/GaAs High Electron	**Mobility** Transistors	11	4036
static Control The Impact of the Operation	**Mode** on Pattern Formation in Electrode Reactions. From Potentiostatic to Galvano	7	2404
A Nonisothermal Nickel-Hydrogen Cell	**Model**	11	3874
lectrosynthesis of Sodium Hydrosulfite. III. Porous Cathode Materials and Process	**Model** E	12	4062
Permeation Through Zinc-Nickel Alloys under Corroding Conditions. Mathematical	**Model** and Experimental Study Characterization of Hydrogen	6	1907
hin Film Transistors A New Charge Pumping	**Model** and Characterization of Process-Dependent Traps in Polycrystalline Silicon T	8	2883
Micro-Macroscopic Coupled Modeling of Batteries and Fuel Cells. I.	**Model** Development	10	3407
Agglomerate	**Model** for DC and AC Response of Phosphoric Acid Fuel Cell Cathode	1	45
A Reaction-Plane	**Model** for the Open-Circuit Potential of Copper in Aerated Copper Sulfate Solution	2	590
Discharge Capacity A Mathematical	**Model** for Intercalation Electrode Behavior. I. Effect of Particle-Size Distribution on	3	771
An Along-the-Channel	**Model** for Proton Exchange Membrane Fuel Cells	4	1149
A Mathematical	**Model** for the Initiation of Aluminum Etch Tunnels	9	3100
Computational Studies of Lithium Intercalation in	**Model** Graphite in the Presence of Tetrahydrofuran	10	3328
	Model of Cathode Reaction Resistance in Molten Carbonate Fuel Cells	5	1511
Achieve Complete Densification A Two-Dimensional	**Model** of Chemical Vapor Infiltration with Radio-Frequency Heating. II. Strategies to	10	3569
Comparison of Experiments with a Lumped Parameter	**Model** of the Plasma Assisted Chemical Vapor Deposition of Copper	2	694
Metallorganic Vapor-Phase Epitaxy Reactor	**Modeling** and Process Optimization of ZnSe and ZnS Epitaxial Growth in a Vertical	8	2887
Strained Beta + Alpha Titanium	**Modeling** of Anodic Current Transients Resulting from Oxide Rupture of Plastically	6	1829
Steady-State	**Modeling** of a Parallel-Plate Electrochemical Fluorination Reactor	10	3521
Micro-Macroscopic Coupled	**Modeling** of Batteries and Fuel Cells. I. Model Development	10	3407
Metal Hydride Cells Micro-Macroscopic Coupled	**Modeling** of Batteries and Fuel Cells. II. Application to Nickel-Cadmium and Nickel-	10	3418
Wear-Contact Problems and	**Modeling** of Chemical Mechanical Polishing	6	2100
on Graphite	**Modeling** of Growth Morphology of Underpotential Electropolymerization of Pyrrole	1	179
Interface Regions. II. Direct Exchange of Oxygen Vacancies Mathematical	**Modeling** of Oxygen Exchange and Transport in Air-Perovskite-Yttria-Stabilized Zirc	4	1390
Electronic Network	**Modeling** of Rechargeable Batteries. I. The Nickel and Cadmium Electrodes	11	3764
Electronic Network	**Modeling** of Rechargeable Batteries. II. The NiCd System	11	3774
Fuel Utilization	**Modeling** of Solid Oxide Heat Exchanger Integrated Stacks and Simulation at High	11	3995
Mathematical	**Modeling** of Soft Baking in Photoresist Processing	12	4256
ystems	**Modeling** of the Transient Behavior of Anodic Oxides Formed in Si/HF Electrolyte S	1	332
Ag Equivalent Circuit	**Modeling** of the AgAs0.24S0.36Ag0.40Ag System Prepared by Photodissolution of	9	2971
	Modeling Plasma-Assisted Deposition of Diamond-Like Carbon Films	12	4332
	Modeling Side Reactions in Composite LiyMn2O4 Electrodes	3	990
n a Rotating Disk Electrode	**Modeling** the Galvanostatic Pulse and Pulse Reverse Plating of Nickel-Iron Alloys o	6	2033
Predicting and	**Modeling** the Low-Voltage Cathodoluminescent Efficiency of Oxide Phosphors	9	3165
	Modeling the Twin Platinum Probe Scanning Electrode Response	12	4074
Designing Reduced-Order	**Models** for Rapid Thermal Processing Systems	11	3974
tion Morphology	**Modification** and Delithiation Mechanisms of LiMn2O4 and Li2MnO3 by Acid Diges	1	16
Protective Films on Copper by Multistep	**Modification** of an Alkanethiol Monolayer with Chlorosilanes and Alkanediol	8	2786
Improvement of Pitting Corrosion Resistance of Type 304 Stainless Steel by	**Modification** of Passive Film with Ultraviolet Light Irradiation	5	L79
z Crystal Microbalance Studies	**Modification** of the Lithium Metal Surface by Nonionic Polyether Surfactants: Quart	7	2340
Characterizations of Iron-Containing Clay	**Modified** Electrodes and Their Applications for Glucose Sensing	1	154
A Neutron Reflectivity Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film	**Modified** Electrodes: Effect of pH and Counterion	5	1454
Flow	**Modulation** as a Means of Studying Leveling Agents	2	560
Mass Transport in Sonovoltammetry with Evidence of Hydrodynamic	**Modulation** from Ultrasound	6	1994
ent	**Moisture** Instability of Borophosphosilicate Glass and the Effects of Thermal Treatm	11	3950
Chemical and Electrochemical Passivation of PbSe Thin Layers Grown by	**Molecular** Beam Epitaxy	2	512
	Molecular Dynamics Simulation of V2O5/Li2SiO3 Interface	6	2155
The Reaction of Clean Li Surfaces with Small	**Molecules** in Ultrahigh Vacuum. II. Water	1	159
Model of Cathode Reaction Resistance in	**Molten** Carbonate Fuel Cells	5	1511
Characterization of a 100 cm2 Class	**Molten** Carbonate Fuel Cell with Current Interruption	8	2747
Lithiated Nickel Oxide Electrode Performance in	**Molten** K2S2O7/V2O5 and K2SO4/V2O5 Systems	3	892
Diffusion Coefficients of Cerium and Gadolinium in	**Molten** LiCl-KCl	1	84
asic Aluminum Chloride-1-methyl-3-ethylimidazolium Chloride Room Temperature	**Molten** Salt Electrochemistry of Thallium in the B	4	1196
Copper and Copper-Aluminum Alloys from a Room-Temperature Chloroaluminate	**Molten** Salt Electrodeposition of	9	3110
Examination of the Role of	**Molybdenum** in Passivation of Stainless Steels Using AC Impedance Spectroscopy	5	1462
Improved Porous Mixture of	**Molybdenum** Nitride and Tantalum Oxide as a Charge Storage Material	4	L61
h Ruthenium Oxide Behavior of	**Molybdenum** Nitrides as Materials for Electrochemical Capacitors. Comparison wit	6	1882
ctrosynthesis of Sodium Hydrosulfite. I. Development of an Online Process Control	**Monitor** Ele	12	4052
Adsorption of Thiourea on Copper Electrodes	**Monitored** by In Situ Infrared Spectroscopy	10	3366
of Untreated AA-2024-T3 in Chloride Solution by a Chromate Conversion Coating	**Monitored** with Raman Spectroscopy Corrosion Protection	7	2258
d Transport of Water: Theoretical Analysis and Methods	**Monitoring** Degradation of Single and Multilayer Organic Coatings. I. Absorption an	11	3830

		Issue	Page
Design and Simulation of a Reverse Iontophoretic Glucose	**Monitoring** Device	12	4119
An Optical Method for	**Monitoring** Metal Contamination during Aqueous Processing of Silicon Wafers	5	1688
ced Dynamic Random Access Memory Application Optical	**Monitoring** of Capacitance in Hemispherical Grain Polycrystalline Silicon for Advan	11	3935
Fast-Feedback Iron Contamination	**Monitoring** Using Surface Photovoltage Measurements	2	701
lectrode Time-Resolved	**Mono-anion**, Di-anion, and Solvent Transfers into a Poly(vinylferrocene)-Modified E	2	L24
of Size-Selective Photoetching of CdS Nanoparticles as a Means of Preparation of	**Monodisperse** Particles Characteristic Features	6	1964
of Copper Corrosion by an Ultrathin Two-Dimensional Polymer Film of Alkanethiol	**Monolayer** Protection	6	1856
Protective Films on Copper by Multistep Modification of an Alkanethiol	**Monolayer** with Chlorosilanes and Alkanediol	8	2786
	Monolithic, Self-Powered Photovoltaic-Electrochromic Coating for Windows	10	3545
trolytes In Situ Real-Time Pt LIII-Edge X-Ray Absorption Spectra of Carbon	**Monoxide** Adsorbed on Platinum Particles Dispersed in High-Area Carbon in Aqueo	1	80
SnO2/Bi2O3: A Suitable System for Selective Carbon	**Monoxide** Detection	3	1039
urement Interferometric Microscopy Electrochemical Behavior and Surface	**Morphologic** Changes of Copper Substrates in the Presence of 2,5-Dimercapto-1,3	7	2369
t Electrode	**Morphological** Changes at the Interface of the Nickel-Yttria Stabilized Zirconia Poin	7	2244
Toward Efficient Electrochromic NiOx Films. A Study of Microstructure,	**Morphology**, and Stoichiometry of Radio-Frequency Sputtered Films	1	235
por Deposition Effect of Fluorine on Surface	**Morphology** in Selective Epitaxial TiSi2 Growth by Plasma-Enhanced Chemical Va	5	1640
y Acid Digestion	**Morphology** Modification and Delithiation Mechanisms of LiMn2O4 and Li2MnO3 b	1	16
Growth Kinetics and	**Morphology** of Porous Anodic Alumina Films Formed Using Phosphoric Acid	8	2699
Modeling of Growth	**Morphology** of Underpotential Electropolymerization of Pyrrole on Graphite	1	179
f Practical Batteries The Correlation Between Charge/Discharge Rates and	**Morphology**, Surface Chemistry, and Performance of Li Electrodes and the Connec	5	1421
ally Alloyed Sn2Fe In Situ	**Mossbauer** Effect Studies of the Electrochemical Reaction of Lithium with Mechanic	12	4195
of Power Densities and Chemical Potential Variation in Solid Oxide Fuel Cells with	**Multilayer** and Single-Layer Oxide Electrolytes Comparison	1	99
ysis and Methods Monitoring Degradation of Single and	**Multilayer** Organic Coatings. I. Absorption and Transport of Water: Theoretical Anal	11	3830
Steady-State	**Multiplicity** Phenomena in the Deposition of Silicon Carbide	11	3908
ol Protective Films on Copper by	**Multistep** Modification of an Alkanethiol Monolayer with Chlorosilanes and Alkanedi	8	2786
Design of Injection Feed	**Multiwafer** Low-Pressure Chemical Vapor Deposition Reactors	7	2494

— N —

ible Ellipsometry and In Situ Infrared Spectroscopy Surface Composition of	**n-GaAs** Cathodes during Hydrogen Evolution Characterized by In Situ Ultraviolet-Vi	2	447
Photoelectrocatalytic Study of Water Oxidation at	**n-RuS2** Electrodes	1	216
Electrical Characterization of the Semiconducting Properties of	**n-TiO2**	10	3550
Stability and Photoresponse of Nanocrystalline	**n-TiO2** and n-TiO2/Mn2O3 Thin Film Electrodes during Water Splitting Reactions	1	89
Stability and Photoresponse of Nanocrystalline n-TiO2 and	**n-TiO2/Mn2O3** Thin Film Electrodes during Water Splitting Reactions	1	89
metry and Te Concentration on the Deep Levels in Liquid-Phase Epitaxially Grown	**n-Type** Al0.3Ga0.7As Effects of Stoichio	8	2905
Excitation Photocapacitance Study of Ionized Levels in	**n-Type** GaAs Observed during Photoquenching	8	2892
ation Effects of Thermal	**N2** Annealing on Passivation Capability of Sputtered Ta(-N) Layers Against Cu Oxid	11	4029
Nitrogen Incorporation in Thin Silicon Oxides in a	**N2O** Plasma. Effects of Processing Conditions	2	662
Electrochemical Promotion of Pt Catalyst Electrodes Deposited on	**Na3Zr2Si2PO12** during Ethylene Oxidation	5	1469
The Influence of CO2 and	**NaCl** on the Atmospheric Corrosion of Zinc. A Laboratory Study	9	2993
Proton Conductivity in	**Nafion** 117 and in a Novel Bis[(perfluoroalkyl)sulfonyl]imide Ionomer Membrane	1	107
Negative Impedance of the	**Nafion** Membrane Between Two Electrolyte Solutions	8	2740
A Study of Capillary Porous Structure and Sorption Properties of	**Nafion** Proton-Exchangé Membranes Swollen in Water	8	2677
Fabrication and Characterization of Uniform Metallic Nanostructures Using	**Nanochannel** Glass	1	247
From ZnO Colloids to	**Nanocrystalline** Highly Conductive Films	10	3532
ting Reactions Stability and Photoresponse of	**Nanocrystalline** n-TiO2 and n-TiO2/Mn2O3 Thin Film Electrodes during Water Split	1	89
Comparative Study of the Electrochemical Behavior of Polycrystalline and	**Nanocrystalline** Ru Powder in NaOH Solution	5	1624
Time-Dependent Electrochromism of	**Nanocrystalline** TiO2 Films in Propylene Carbonate Solution of LiClO4	6	1982
g Tunnel Microscope	**Nanofabrication** of Small Palladium Clusters on Au(111) Electrodes with a Scannin	3	L33
chnology A Novel	**Nanolithographic** Concept Using Crack-Assisted Patterning and Self-Alignment Te	6	2120
Characteristic Features of Size-Selective Photoetching of CdS	**Nanoparticles** as a Means of Preparation of Monodisperse Particles	6	1964
The Electrocatalytic Oxidation of Methanol at Finely Dispersed Platinum	**Nanoparticles** in Polypyrrole Films	1	124
Incorporation of Cadmium Sulfide into	**Nanoporous** Silicon by Sequential Chemical Deposition from Solution	7	2448
Pulsed Electrodeposition Synthesis and Hydrogen Absorption Properties of	**Nanostructured** Palladium-Iron Alloy Films	10	3339
Template Electropolymerization of Polypyrrole	**Nanostructures** on Highly Ordered Pyrolytic Graphite Step and Pit Defects	10	3320
Fabrication and Characterization of Uniform Metallic	**Nanostructures** Using Nanochannel Glass	1	247
f the Electrochemical Behavior of Polycrystalline and Nanocrystalline Ru Powder in	**NaOH** Solution Comparative Study o	5	1624
High-Temperature Wet Chemical Etching of Ta2O5 in	**NaOH-Based** Solutions for Fabricating Antiresonant Reflecting Optical Waveguides	3	1020
Tuning the Position of the Redox Couples in Materials with	**NASICON** Structure by Anionic Substitution	5	1518
urements Protonic and	**Native** Conduction in Sr-Substituted LaPO4 Studied by Thermoelectric Power Meas	10	3313
lographic Interferometry Ionic Mass-Transfer Rates Associated with	**Natural** Convection along a Plane Vertical Anode Measured by Two-Wavelength Ho	11	3814
Impedance Study on the Electrochemical Lithium Intercalation into	**Natural** Graphite Powder	1	172
s Electrochemistry of Chemically Lithiated	**NaV3O8**: A Positive Electrode Material for Use in Rechargeable Lithium-Ion Batterie	2	421
c Devices Amorphous	**Nb/Fe-Oxide** Ion-Storage Films for Counter Electrode Applications in Electrochromi	5	1607
Evaluation of Zr(Ni,Mn)2 Laves Phase Alloys as	**Negative** Active Material for Ni-MH Electric Vehicle Batteries	5	1478
Optimization of the Dimensions of Vapor-Grown Carbon Fiber for Use as	**Negative** Electrodes in Lithium-Ion Rechargeable Cells	1	210
	Negative Impedance of the Nafion Membrane Between Two Electrolyte Solutions	8	2740
s Electronic	**Network** Modeling of Rechargeable Batteries. I. The Nickel and Cadmium Electrode	11	3764
Electronic	**Network** Modeling of Rechargeable Batteries. II. The NiCd System	11	3774
	Network Polymer Electrolytes with Free Chain Ends as Internal Plasticizer	5	1521
es: Effect of pH and Counterion A	**Neutron** Reflectivity Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film Modified Electrod	5	1454
Effect of Anode Materials on	**NF3** Formation	4	1160
Atomic Layer Epitaxy Growth of TiN Thin Films from TiI4 and	**NH3**	8	2914
The Effects of Gas-Phase Additives	**NH3**, NO, and NO2 on SiH4/O2 Chemical Vapor Deposition	3	1070
Oxygen Incorporation during the Electrodeposition of	**Ni**, Fe, and Ni-Fe Alloys	11	3699
via Combustion Chemical Vapor Deposition and Their Effects on the Oxidation of a	**Ni-Base** Chromia Former Alumina Coatings Applied	11	3986
e Fuel Cells Sr- and	**Ni-Doped** LaCoO3 and LaFeO3 Perovskites. New Cathode Materials for Solid-Oxid	9	3220
Oxygen Incorporation during the Electrodeposition of Ni, Fe, and	**Ni-Fe** Alloys	11	3699
Oxidation Behavior of a	**Ni-La2O3** Codeposited Film on Nickel	2	389
Evaluation of Zr(Ni,Mn)2 Laves Phase Alloys as Negative Active Material for	**Ni-MH** Electric Vehicle Batteries	5	1478
orage Alloys Determination of Internal Cell Pressures in Sealed	**Ni-MH** Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydrogen-St	10	3387
Determination of Chemical Species and Their Composition in	**Ni-Mo** Alloy Plating Baths by Factor Analysis of Visible Absorption Spectra	2	523
Study of the Hydrogen Evolution Reaction on	**Ni-Mo-P** Electrodes in Alkaline Solutions	7	2219
Electrochemical Passivation of Ordered	**NiAl**	6	2024
Electronic Network Modeling of Rechargeable Batteries. II. The	**NiCd** System	11	3774
Oxidation Behavior of a Ni-La2O3 Codeposited Film on	**Nickel**	2	389
Electronic Network Modeling of Rechargeable Batteries. I. The	**Nickel** and Cadmium Electrodes	11	3764
and Effects of gamma-NiOOH on Cell Performance and a Method to Quantify It in	**Nickel** Electrodes Characteristics	1	116
Magnetic Field Effects on	**Nickel** Electrodeposition	2	401
Magnetic Field Effects on	**Nickel** Electrodeposition. II. A Steady-State and Dynamic Electrochemical Study	12	4135
Proton Diffusion in	**Nickel** Hydroxide. Prediction of Active Material Utilization	1	29
The Role of Oxygen at the Second Discharge Plateau of	**Nickel** Hydroxide	1	34
A Study on the Phase Transformation of Electrochemically Precipitated	**Nickel** Hydroxides Using an Electrochemical Quartz Crystal Microbalance	2	507
In Situ Ellipsometric Study of the Electroprecipitation of	**Nickel** Hydroxide Films	4	1174
ct Gamma-NiOOH Beta-Ni(OH)2 Transitions during Electrochemical Cycling of the	**Nickel** Hydroxide Electrode Evidence for Dire	5	1434
Mass Transfer and Kinetic Phenomena at the	**Nickel** Hydroxide Electrode	11	3860
The Effect of Crevice-Opening Dimension on the Stability of Crevice Corrosion for	**Nickel** in Sulfuric Acid	7	2276
s Lithium Insertion Electrode Materials Characterization of Layered Lithium	**Nickel** Manganese Oxides Synthesized by a Novel Oxidative Coprecipitation Metho	4	1113
de Performance with Composition and Preparation Temperature of Lithium Cobalt	**Nickel** Oxide Changes in Structure and Catho	3	730

		Issue	Page
stems	Lithiated **Nickel** Oxide Electrode Performance in Molten K2S2O7/V2O5 and K2SO4/V2O5 Sy	3	892
In Situ X-Ray Absorption Spectroscopic Study of Electrodeposited	**Nickel** Oxide Films during Redox Reactions	4	1121
and Bulk Phases	Lithium Manganese **Nickel** Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of Thin Films	12	4148
es	Lithium Manganese **Nickel** Oxides Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies on Thin-Film Batteri	12	4160
Low Temperature Silicon Wafer-to-Wafer Bonding with	**Nickel** Silicide	4	1360
Micro-Macroscopic Coupled Modeling of Batteries and Fuel Cells. II. Application to	**Nickel-Cadmium** and Nickel-Metal Hydride Cells	10	3418
A Nonisothermal	**Nickel-Hydrogen** Cell Model	11	3874
Modeling the Galvanostatic Pulse and Pulse Reverse Plating of	**Nickel-Iron** Alloys on a Rotating Disk Electrode	6	2033
Self-Discharge of Sealed	**Nickel-Metal** Hydride Batteries. Mechanisms and Improvements	3	844
Mechanism of Alloy Corrosion and Consequences on Sealed	**Nickel-Metal** Hydride Battery Performance	3	860
The Effect of Particle Size on the Discharge Performance of a	**Nickel-Metal** Hydride Cell	6	1840
oupled Modeling of Batteries and Fuel Cells. II. Application to Nickel-Cadmium and	**Nickel-Metal** Hydride Cells Micro-Macroscopic C	10	3418
Effects on the Positive Electrode of the Corrosion of ABS Alloys in	**Nickel-Metal-Hydride** Batteries	2	456
Morphological Changes at the Interface of the	**Nickel-Yttria** Stabilized Zirconia Point Electrode	7	2244
Thermal Expansion of	**Nickel-Zirconia** Anodes in Solid Oxide Fuel Cells during Fabrication and Operation	4	1374
Cl2-Based Inductively Coupled Plasma Etching of	**NiFe** and Related Materials	11	4025
Characterization of Flow-Induced Compositional Structure in Electrodeposited	**NiFe** Composition-Modulated Alloys	8	2827
quency Sputtered Films Toward Efficient Electrochromic	**NiOx** Films. A Study of Microstructure, Morphology, and Stoichiometry of Radio-Fre	1	235
udy of the Structural Change Due to Heat-Treatment in High Resistivity Electroless	**NiPC** Film St	7	2419
ea at Gas-Diffusion Electrodes. IV. Simultaneous Reduction of Carbon Dioxide and	**Nitrate** Ions with Various Metal Catalysts Electrochemical Synthesis of Ur	7	2348
Surface and Interface Roughness of Ultrathin	**Nitric** Oxide Oxynitride Gate Dielectric	1	L13
Atomic-Order Thermal	**Nitridation** of Silicon at Low Temperatures	12	4252
Tribochemical Polishing of Silicon	**Nitride**	5	1708
Improved Porous Mixture of Molybdenum	**Nitride** and Tantalum Oxide as a Charge Storage Material	4	L61
Silicon	**Nitride** Chemical Mechanical Polishing Mechanisms	11	3919
Application of a Semi-insulating Amorphous Hydrogenated Silicon	**Nitride** Film as a Resistive Field Shield and Its Reliability	12	4296
ssing Parameters in the Low-Temperature Chemical Vapor Deposition of Titanium	**Nitride** from Tetraiodotitanium The Effects of Proce	2	676
Kinetic Study of the Oxidation of Gallium	**Nitride** in Dry Air	2	629
Cl4-NH3-H2 Kinetics of the Formation of Titanium	**Nitride** Layers by Rapid Thermal Low Pressure Chemical Vapor Deposition from Ti	5	1672
nation of the Porosity of Single and Duplex PVD Coatings of Titanium and Titanium	**Nitride** on Brass Electrochemical Determi	12	4173
A New Process for Depositing Tungsten	**Nitride** Thin Films	2	L21
y Metal Oxide Semiconductor Applications Characterization of High Quality	**Nitrided** Gate Dielectric Films Manufactured in Reduced Pressure Furnace for Ultral	5	1679
Oxide Behavior of Molybdenum	**Nitrides** as Materials for Electrochemical Capacitors. Comparison with Ruthenium	6	1882
ea at Gas-Diffusion Electrodes. III. Simultaneous Reduction of Carbon Dioxide and	**Nitrite** Ions with Various Metal Catalysts Electrochemical Synthesis of Ur	2	595
Investigation of Boron Penetration Through Thin Gate Dielectrics Including Role of	**Nitrogen** and Fluorine	7	2545
Used for Metal-Oxide-Semiconductor Devices	**Nitrogen** Concentration Dependence on Boron Diffusion in Thin Silicon Oxynitrides	2	689
g Conditions	**Nitrogen** Incorporation in Thin Silicon Oxides in a N2O Plasma. Effects of Processin	2	662
(OH)2 on Carbon Black for O2 Reduction Influence of	**Nitrogen-Containing** Precursors on the Electrocatalytic Activity of Heat-Treated Fe	7	2411
eduction of the Nitroolefins so Produced Cathodically Promoted Addition of	**Nitromethane** to Aldehydes and Exploratory Studies of the Mechanism of the Electr	8	2768
and Exploratory Studies of the Mechanism of the Electrochemical Reduction of the	**Nitroolefins** so Produced Cathodically Promoted Addition of Nitromethane t	8	2768
d Chemical Composition of Silicon Oxynitride from Methylsilazane in Ammonia and	**Nitrous** Oxide Deposition an	6	1902
The Effects of Gas-Phase Additives NH3,	**NO**, and NO2 on SiH4/O2 Chemical Vapor Deposition	3	1070
Electrochemical Study of	**NO** Conversion from Fe(II)-EDTA-NO Complex on Pt Electrodes	1	53
The Effects of Gas-Phase Additives NH3, NO, and	**NO2** on SiH4/O2 Chemical Vapor Deposition	3	1070
Sensors for Detecting Sub-ppm	**NO2** Using Photochemically Produced Amorphous Tungsten Oxide	12	4219
	Noise as a Diagnostic Tool for Semiconductor Material and Device Characterization	6	2058
Transformation of Colored Random	**Noise** by Kronig-Kramers Transforms	2	L20
Method or Fast Fourier Transform? Analysis of Electrochemical	**Noise** by Power Spectral Density Applied to Corrosion Studies. Maximum Entropy	8	2780
Electrochemical Resistance	**Noise** during Composite Plating	2	436
Evidence for Surface-Bound Emitters On the Correlation of Aqueous and	**Nonaqueous** In Situ and Ex Situ Photoluminescent Emissions from Porous Silicon	9	3284
e Study of Their Effect on Ion Pair Dissociation and Conductivity of Lithium Salts in	**Nonaqueous** Solutions The Synthesis of a New Family of Boron-Based Anio	8	2813
Sequential Observation of Electroless Copper Deposition via	**Noncontact** Atomic Force Microscopy	9	3301
High Anodic Stability of a New Electrolyte Solvent: Unsymmetric	**Noncyclic** Aliphatic Sulfone	4	L70
inum	**Nondestructive** Optical Characterization of Chemical Conversion Coatings on Alum	8	2733
ipated in Glow Discharges and Nonfaradaic Yields A Study on the Origin of	**Nonfaradaic** Behavior of Anodic Contact Glow Discharge Electrolysis. The Relation	7	2209
Electrolysis. The Relationship Between Power Dissipated in Glow Discharges and	**Nonfaradaic** Yields A Study on the Origin of Nonfaradaic Behavior of Anodic	7	2209
Modification of the Lithium Metal Surface by	**Nonionic** Polyether Surfactants: Quartz Crystal Microbalance Studies	7	2340
A	**Nonisothermal** Nickel-Hydrogen Cell Model	11	3874
ion Involving Mass Transfer	**Nonlinear** Phenomena during the Reduction of Hydrogen Peroxide in Alkaline Solut	11	3857
Junctioned SrTiO3 pO2-Dependent	**Nonohmic** Current-Voltage Characteristics and Current-Induced Redox Behavior of	4	1165
n the Corrosion Resistance of Ferritic Chromium Steel The Effect of	**Nonstoichiometry** of Surface Oxides Formed during High Temperature Oxidation o	7	2236
The Effects of Dopants and A:B Site	**Nonstoichiometry** on Properties of Perovskite-Type Proton Conductors	5	1780
Measurements of VOCs with a Semiconductor Electronic	**Nose**	7	2486
Lithium-7	**Nuclear** Magnetic Resonance Investigation of Lithium Insertion in Hard Carbon	4	1179
Electrodeposited Tl2O3-Matrix Composites. I. Effect of the Dispersed Phase on	**Nucleation** and Growth of the Matrix	2	549
eposition Structural Investigation of the Bias-Enhanced	**Nucleation** and Growth of Diamond Films by Microwave Plasma Chemical Vapor D	6	2095
	Nucleation and Growth of Zinc from Chloride Concentrated Solutions	12	4090
Atomic Force Microscopy	**Nucleation** of Chromate Conversion Coating on Aluminum 2024-T3 Investigated by	1	L11
ical Quartz Crystal Microbalance Studies of Polypyrrole Growth on Self-Assembled	**Nucleation** Sites Electrochem	5	1483
idual Point Defect Supersaturation on the Formation of Grown-In Oxide Precipitate	**Nuclei** in CZ-Si Influence of Res	5	L75
k Electrode below the Mass-Transfer-Limited Current. Correction for Finite Schmidt	**Number** and Determination of Surface Charge Distribution Current Distributi	6	1940
oefficients of Mixed Ionic-Electronic Conductors with Arbitrary Electronic Transport	**Numbers**. Application of Impedance, Potentiostatic, and Galvanostatic Methods to	6	2179

— O —

position Effect of	**O2** Addition on the Deposition of Pt Thin Films by Metallorganic Chemical Vapor De	3	1066
Reduction in Contact Resistance with In Situ	**O2** Plasma Treatment	7	2480
rsors on the Electrocatalytic Activity of Heat-Treated Fe(OH)2 on Carbon Black for	**O2** Reduction Influence of Nitrogen-Containing Precu	7	2411
Area Carbons	**O2** Reduction on an Ink-Type Rotating Disk Electrode Using Pt Supported on High-	11	3713
g Method	**O2-Plasma** Passivation Effects on Polysilicon Thin Film Transistors Using Ion Platin	1	252
sited by Atmospheric Pressure Chemical Vapor Deposition Using Si(OC2H5)4 and	**O3** Effects of Substrate on the Growth Characteristics of Silicon Oxide Films	8	2847
Excitation Photocapacitance Study of Ionized Levels in n-Type GaAs	**Observed** during Photoquenching	8	2892
hralski-Silicon Surface Pits	**Observed** on SiO2 Thermally Grown at High Temperatures on (111)-Oriented Czoc	6	2143
terion A Neutron Reflectivity Study	**of[Os(bipy)2(PVP)10Cl]+** Polymer Film Modified Electrodes: Effect of pH and Coun	5	1454
Electrosynthesis of Sodium Hydrosulfite. I. Development of an	**Online** Process Control Monitor	12	4062
ative Evaluation of Precipitated Oxygen in Silicon by Infrared Spectroscopy. Still an	**Open** Problem Quantit	5	1715
A Reaction-Plane Model for the	**Open-Circuit** Potential of Copper in Aerated Copper Sulfate Solution	2	590
Room Temperature	**Operating** Solid-State Sensor for Chlorine Gas	7	2445
Structural and	**Optical** Characterization of Porous 3C-SiC	7	2241
Nondestructive	**Optical** Characterization of Chemical Conversion Coatings on Aluminum	8	2733
Preparation of a Gold-Sputtered	**Optical** Fiber as a Microelectrode for Electrochemical Microscopy	6	2011
Films Deposition Temperature Dependence of	**Optical** Gap and Coloration Efficiency Spectrum in Electrochromic Tungsten Oxide	5	1729
An Electrochemical Cell for Simultaneous In Situ X-Ray Diffraction and	**Optical** Measurements	8	2759
Silicon Wafers An	**Optical** Method for Monitoring Metal Contamination during Aqueous Processing of	5	1688
Advanced Dynamic Random Access Memory Application	**Optical** Monitoring of Capacitance in Hemispherical Grain Polycrystalline Silicon for	11	3935
Enhanced Chemical Vapor Deposition Relationship Between Structural and	**Optical** Properties in Polycrystalline Silicon Films Prepared at Low Temperature by	10	3615
hene) Fast	**Optical** Spectroscopy of the Electrochemical Doping of Poly(3,4-ethylenedioxythiop	11	3810
Etching of Ta2O5 in NaOH-Based Solutions for Fabricating Antiresonant Reflecting	**Optical** Waveguides High-Temperature Wet Chemical	3	1020

	Issue	Page
on Effects on Mechanical Stress and Gate Oxide Integrity		
e GaAs Metal-Semiconductor Field Effect Transistor		
Electrodes in Lithium-Ion Rechargeable Cells		
ontrol of the Basic Lead Sulfate Precursor		
Layer Epitaxy in an Automated Deposition System		
hase Epitaxy Reactor Modeling and Process		
tion of Methanol, Ethanol, 1,2-Ethanediol, and D-Glucose over a Pt-Ruads Surface		
Electrochemical Passivation of		
Template Electropolymerization of Polypyrrole Nanostructures on Highly		
First-Principles Evidence for Stage		
ethods Monitoring Degradation of Single and Multilayer		
ectrochemical Formation of Polypyrrole/SiO2 Composite Film and Its Application to		
Lithium Insertion into Disordered Carbons Prepared from Designed		
Passivity and Breakdown of Carbon Steel in		
Optimized for Oxidation of Methanol Deposition of Ru Adatoms on Pt Using		
n and Depolymerization of 2,5-Dimercapto-1,3,4-thiadiazole in Acetonitrile		
The Effect of Processing Conditions on Crystal		
ower Dissipated in Glow Discharges and Nonfaradaic Yields A Study on the		
Characterization of Crystal Quality by Crystal		
In Situ Infrared Study of the		
n Situ Characterization of the p-Si/NH4F Interface during Dissolution in the Current		
Electrochemical Properties of		
Preparation and Electrochemical Characterization of		
Influence of		
l Low		
Mechanism of Luminance Decrease in BaMgAl10O17:Eu2+ Phosphor by		
mal N2 Annealing on Passivation Capability of Sputtered Ta(-N) Layers Against Cu		
romotion of Pt Catalyst Electrodes Deposited on Na3Zr2Si2PO12 during Ethylene		
tions		
Photoelectrocatalytic Study of Water		
Subparabolic		
eld Oxide Thinning Behavior in Local Oxidation of Silicon Process under Enhanced		
s Degradation of 4-Chlorophenol by Anodic		
Controlled Anodic		
lyte. I. Determination of the Predominant Reaction Process Electrochemical		
ates of Electrochemical Reactions Taking Place in Parallel Electrochemical		
Electrochemical Study on the Cationic Promotion of the Catalytic SO2		
Acetonitrile The Electrochemical		
atings Applied via Combustion Chemical Vapor Deposition and Their Effects on the		
Kinetic Study of the		
ms The Electrocatalytic		
ol, Ethanol, 1,2-Ethanediol, and D-Glucose over a Pt-Ruads Surface Optimized for		
e Integrity Optimization of Polysilicon Encapsulated Local		
Field Oxide Thinning Behavior in Local		
Mechanistic Aspects of Phenol Electrochemical Degradation by		
Impact of High-Temperature Dry Local		
Electrochemical Promotion of Ethylene		
he Effect of Nonstoichiometry of Surface Oxides Formed during High Temperature		
Voltammetric Studies of the Behavior of Carbon Black during Phenol		
isms of Film Growth Rate Enhancement in Anodic and Cathodic Corona-Discharge		
e RF Plasmas Comparison of		
Point Defect Dynamics and the		
racterization of Layered Lithium Nickel Manganese Oxides Synthesized by a Novel		
The Mechanism of the		
al Capacitors Using Hydrous Ruthenium Oxide and Hydrogen Inserted Ruthenium		
ical Composition of Silicon Oxynitride from Methylsilazane in Ammonia and Nitrous		
rformance with Composition and Preparation Temperature of Lithium Cobalt Nickel		
Nitrides as Materials for Electrochemical Capacitors. Comparison with Ruthenium		
r Detecting Sub-ppm NO2 Using Photochemically Produced Amorphous Tungsten		
Mo Gate Metal Oxide Semiconductor Devices Caused by Mo Penetration into Gate		
Electrochemical Capacitors Using Hydrous Ruthenium		
utions Mechanistic Study of Cathodic Electrodeposition of Zinc		
Studies on Stannic		
Improved Porous Mixture of Molybdenum Nitride and Tantalum		
Highly Stable Vanadium		
A Novel Statistical Metrology Framework for Identifying Sources of Variation in		
mical Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer		
Lithiated Nickel		
Current Distribution at Porous Electrodes-Solid		
Fluorocarbon Polymer Deposited by Inductively Coupled Plasma		
On the Kinetics of Growth of Anodic		
In Situ X-Ray Absorption Spectroscopic Study of Electrodeposited Nickel		
Pressure and Plasma-Enhanced Chemical Vapor Deposited Tetraethylorthosilicate		
nce of Optical Gap and Coloration Efficiency Spectrum in Electrochromic Tungsten		
The Nature of		
2H5)4 and O3 Effects of Substrate on the Growth Characteristics of Silicon		
Micromachining of Tin		
Ethanol-Addition-Enhanced, Chemical Vapor Deposited Tantalum		
Potentiostatic		
Low Overvoltage Mechanism of High Ionic Conducting Cathode for Solid		
Comparison of Power Densities and Chemical Potential Variation in Solid		
Engineering of Solid		
Based Anodes High-Performance Electrode for Medium-Temperature Solid		
Analysis of Fuel Utilization Performance of Round Substrate, Planar Solid		
Yttria-Stabilized Zirconia Solid		
Thermal Expansion of Nickel-Zirconia Anodes in Solid		
Utilization of Hydrogen Sulfide in an Intermediate-Temperature Ceria-Based Solid		
Effect of Mixed-Conducting Interfacial Layers on Solid		
Gas Conversion Impedance: A Test Geometry Effect in Characterization of Solid		
oO3 as a New Cathode Material Intermediate Temperature Solid		
Modeling of Solid		
The Electrochromic Behavior of Indium Tin		
ocal Oxidation of Silicon. Cavity Dimension Effects on Mechanical Stress and Gate		
Intermediate Temperature Solid Oxide Fuel Cells Using a New LaGaO3 Based		
Optimization of Polysilicon Encapsulated Local Oxidation of Silicon. Cavity Dimensi	5	1653
Optimization of SiON Film Compositions for Encapsulation of Refractory Metal Gat	1	323
Optimization of the Dimensions of Vapor-Grown Carbon Fiber for Use as Negative	1	210
Optimization of the Positive Active Material Capacity in Lead- Acid Cells Through C	10	3358
Optimization of the Growth of CdTe Thin Films Formed by Electrochemical Atomic	10	3594
Optimization of ZnSe and ZnS Epitaxial Growth in a Vertical Metallorganic Vapor-P	8	2887
Optimized Diode Analysis of Electrical Silicon Substrate Properties	6	2107
Optimized for Oxidation of Methanol Deposition of Ru Adatoms on Pt Using	12	4182
Optimum Conditions for Composites Fiber Coating by Chemical Vapor Infiltration	4	1263
Ordered NiAl	6	2024
Ordered Pyrolytic Graphite Step and Pit Defects	10	3320
Ordering in LixCoO2	6	2149
Organic Coatings. I. Absorption and Transport of Water: Theoretical Analysis and M	11	3830
Organic Electroluminescence Devices El	4	1126
Organic Polymers	9	3123
Organic Solvent Mixtures of Propylene Carbonate and Dimethoxyethane	7	2396
Organometallic Chemistry. Electro-oxidation of Methanol, Ethanol, 1,2-Ethanediol,	12	4182
Organosulfur/Conducting Polymer Composite Cathodes. I. Voltammetric Study of	6	1893
Orientation and Structure in ZnS:Mn Thin Films	1	226
Origin of Nonfaradaic Behavior of Anodic Contact Glow Discharge Electrolysis. The	7	2209
Originated Particle Delineation and the Impact on the Silicon Wafer Surface	1	275
Oscillating Anodic Dissolution of Silicon in Fluoride Electrolytes	3	964
Oscillations Regime I	2	498
Over-stoichiometric ZrMn1-xVxNi1.4+y Alloys with C15 Laves Phase	1	93
Overlithiated Spinel LiMn2O4	4	1131
Overpolish Time on the Performance of W Damascene Technology	4	1285
Overvoltage Mechanism of High Ionic Conducting Cathode for Solid Oxide Fuel Cel	3	L35
Oxidation	11	3903
Oxidation Effects of Ther	11	4029
Oxidation Electrochemical P	5	1469
Oxidation and Reduction of Liquid SnPb (60/40) under Ambient and Vacuum Condi	6	2138
Oxidation at n-RuS2 Electrodes	1	216
Oxidation Behavior of a Ni-La2O3 Codeposited Film on Nickel	2	389
Oxidation Behavior of Silicon Carbide at 1300 C	8	2876
Oxidation Conditions Fi	5	1664
Oxidation, Electro-Fenton, Photoelectro-Fenton, and Peroxi-Coagulation Processe	3	759
Oxidation for High Precision Etch Depth in AlGaAs III-V Semiconductor Structures	3	1076
Oxidation in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabili	3	920
Oxidation in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabili	9	3117
Oxidation in Pyrosulfate Melts	11	3721
Oxidation of 1,4-Bis(methylseleno)benzene (Selenium Analog of Wurster's Blue) in	2	541
Oxidation of a Ni-Base Chromia Former Alumina Co	11	3986
Oxidation of Gallium Nitride in Dry Air	2	629
Oxidation of Methanol at Finely Dispersed Platinum Nanoparticles in Polypyrrole Fil	1	124
Oxidation of Methanol Deposition of Ru Adatoms on Pt Using Organometalli	12	4182
Oxidation of Silicon. Cavity Dimension Effects on Mechanical Stress and Gate Oxid	5	1653
Oxidation of Silicon Process under Enhanced Oxidation Conditions	5	1664
Oxidation on a Ta/PbO2 Anode	10	3427
Oxidation on Gate Oxide Quality	7	2595
Oxidation on Pt Catalyst Films Deposited on CeO2	4	1202
Oxidation on the Corrosion Resistance of Ferritic Chromium Steel T	7	2236
Oxidation on Ti/Pt Electrodes	8	2763
Oxidation Processes Mechan	8	2944
Oxidation Rates for a-Si1-xCx:H Films Deposited from Pulsed and Continuous Wav	9	3271
Oxidation Studies of Silicon Oxynitride Ceramics	4	1355
Oxidation-Induced Stacking-Fault Ring in Czochralski-Grown Silicon Crystals	1	302
Oxidative Coprecipitation Method and Their Electrochemical Performance as Lithiu	4	1113
Oxidative Dissolution of Colloidal Gold in Cyanide Media	2	408
Oxide Electrochemic	1	49
Oxide Deposition and Chem	6	1902
Oxide Changes in Structure and Cathode Pe	3	730
Oxide Behavior of Molybdenum	6	1882
Oxide Sensors fo	12	4219
Oxide Surface State Generation of	4	1297
Oxide and Hydrogen Inserted Ruthenium Oxide	1	49
Oxide and Zinc Hydroxychloride Films from Oxygenated Aqueous Zinc Chloride Sol	3	864
Oxide as an Anode Material for Lithium-Ion Batteries	1	59
Oxide as a Charge Storage Material	4	L61
Oxide Cathodes Prepared by Plasma-Enhanced Chemical Vapor Deposition	6	1889
Oxide Chemical Mechanical Polishing	3	1052
Oxide Electrolytes Comparison of Power Densities and Che	1	99
Oxide Electrode Performance in Molten K2S2O7/V2O5 and K2SO4/V2O5 Systems	3	892
Oxide Electrolyte Interface	9	3130
Oxide Etching	4	L67
Oxide Films	3	898
Oxide Films during Redox Reactions	4	1121
Oxide Film on a Boron Implant Profile The Effect of Low-	5	1677
Oxide Films Deposition Temperature Depende	5	1729
Oxide Films on Tungsten in Acidic and Alkaline Solutions	8	2718
Oxide Films Deposited by Atmospheric Pressure Chemical Vapor Deposition Using	8	2847
Oxide Film by Electrochemical Reduction Process	9	3067
Oxide Films from Ta(OC2H5)5 and Oxygen Precursors	9	3247
Oxide Formation on Lead Selenide Single Crystals in Alkaline Solutions	8	2806
Oxide Fuel Cell	3	L35
Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolytes	1	99
Oxide Fuel Cells with Ceria-Based Electrolytes	2	414
Oxide Fuel Cells. Effects of Composition and Microstructures on Performance of Ce	2	615
Oxide Fuel Cells	3	931
Oxide Fuel Cell with Composite Electrolyte Consisting of Samaria-Doped Ceria and	3	1004
Oxide Fuel Cells during Fabrication and Operation	4	1374
Oxide Fuel Cell	5	1449
Oxide Fuel Cell Anode Performance	5	1696
Oxide Fuel Cell Anodes	7	2431
Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion Conductor. I. Doped SmC	9	3177
Oxide Heat Exchanger Integrated Stacks and Simulation at High Fuel Utilization	11	3995
Oxide in Propylene Carbonate Solutions	7	2225
Oxide Integrity Optimization of Polysilicon Encapsulated L	5	1653
Oxide Ion Conductor. I. Doped SmCoO3 as a New Cathode Material	9	3177

		Issue	Page
Surface and Interface Roughness of Ultrathin Nitric	**Oxide** Oxynitride Gate Dielectric	1	L13
Predicting and Modeling the Low-Voltage Cathodoluminescent Efficiency of	**Oxide** Phosphors	9	3165
Influence of Residual Point Defect Supersaturation on the Formation of Grown-In	**Oxide** Precipitate Nuclei in CZ-Si	5	L75
Impact of High-Temperature Dry Local Oxidation on Gate	**Oxide** Quality	7	2595
Drastic Improvements of Gate	**Oxide** Reliability by Argon Annealing Compared with Hydrogen Annealing	10	3628
Modeling of Anodic Current Transients Resulting from	**Oxide** Rupture of Plastically Strained Beta + Alpha Titanium	6	1829
Electrical Characterization of 6H-SiC Metal	**Oxide** Semiconductor Structures at High Temperature	1	299
Surface State Generation of Mo Gate Metal	**Oxide** Semiconductor Devices Caused by Mo Penetration into Gate Oxide	4	1297
Reduced Pressure Furnace for Ultralarge Scale Integration Complementary Metal	**Oxide** Semiconductor Applications Characterization of High Quality Nitrided	5	1679
siderations of Using Elevated Source/Drain Technology for Deep Submicron Metal	**Oxide** Semiconductor Field Effect Transistors Parasitic Resistance Con	6	2131
Experimental Methods for Investigating the Defect Properties of SiO2 in Metal	**Oxide** Semiconductor Transistors	10	3638
Steady-State and Transient Behavior of Thick-Film Tin	**Oxide** Sensors in the Presence of Gas Mixtures	5	1772
Processes in Ultrathin Buried	**Oxide** Synthesis Stimulated by Low Dose Ion Implantation	8	2964
dation Conditions Field	**Oxide** Thinning Behavior in Local Oxidation of Silicon Process under Enhanced Oxi	5	1664
Microstructural Changes in a Polycrystalline, Semiconducting	**Oxide** under DC Electric Fields	12	4243
ost Chemical Mechanical Planarization Buffing on Defect Density of Tungsten and	**Oxide** Wafers The Effects of P	12	4240
High Temperature Reactive Ion Etching of Indium-Tin	**Oxide** with HBr and CH4 Mixtures	12	4313
Characterization of Sol-Gel-Derived Cobalt	**Oxide** Xerogels as Electrochemical Capacitors	12	4097
rbonate An Investigation of Composite Electrolytes by Mixing Polyethylene	**Oxide-** and Polytetramethylene Glycol-Based Waterborne Polyurethane with the Ad	10	3450
Effect of Microstructure and Composition on Ionic Conductivity of Rare-Earth	**Oxide-Doped** Ceria	2	638
Scanning Force Microscopy Investigation of Surface Forces at the Tungsten	**Oxide/Lithium** Borate Interface	2	689
analytical Behavior of Li Intercalation Processes into Graphite and Transition Metal	**Oxides** Common Electro	9	3024
ughness Generated in Ammonia Hydrogen Peroxide Mixtures (SC1) on 5 nm Gate	**Oxides** Impact of Iron Contamination and Ro	7	2589
ferentiation Between Electric Breakdowns and Dielectric Breakdown in Thin Silicon	**Oxides** Dif	3	1033
The Search for Cathode and Anode Traps in High-Voltage Stressed Silicon	**Oxides**	4	1292
on Oxygen Depth Profiles and Chemical Etching Rates of Thermally Grown Silicon	**Oxides** Effects of Annealing	4	1306
Boron Diffusion in Silicon	**Oxides** and Oxynitrides	6	2068
Solid-State Reaction Kinetics of LaCrO3 from the	**Oxides** and Determination of La3+ Diffusion Coefficient	6	2090
Modeling of the Transient Behavior of Anodic	**Oxides** Formed in Si/HF Electrolyte Systems	1	332
Ferritic Chromium Steel The Effect of Nonstoichiometry of Surface	**Oxides** Formed during High Temperature Oxidation on the Corrosion Resistance of	7	2236
Nitrogen Incorporation in Thin Silicon	**Oxides** in a N2O Plasma. Effects of Processing Conditions	2	662
lk Phases Lithium Manganese Nickel	**Oxides** Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of Thin Films and Bu	12	4148
Lithium Manganese Nickel	**Oxides** Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies on Thin-Film Batteries	12	4160
Electrode Materials Characterization of Layered Lithium Nickel Manganese	**Oxides** Synthesized by a Novel Oxidative Coprecipitation Method and Their Electro	4	1113
Comparison of the Semiconductive Properties of Sputter-Deposited Iron	**Oxides** with the Passive Film on Iron	2	378
Extension of Dose Window for Low-Dose Separation by Implanted	**Oxygen**	5	1735
Role of Electronic Property of Pt and Pt Alloys on Electrocatalytic Reduction of	**Oxygen**	12	4185
Segregation of	**Oxygen** at a Solid/Liquid Interface in Silicon	5	1692
The Role of	**Oxygen** at the Second Discharge Plateau of Nickel Hydroxide	1	34
La1-xBaxCr1-yTiyO3 with Varied	**Oxygen** Content	1	264
Electrical Characterization of Thin SiO2 Films on Silicon Created by Anodic	**Oxygen** Corona Discharge Processing	8	2937
des Effects of Annealing on	**Oxygen** Depth Profiles and Chemical Etching Rates of Thermally Grown Silicon Oxi	4	1306
	Oxygen Diffusion in Single-Crystal In2O3 and Tin-Doped In2O3	8	2910
Equivalent Circuit Approximation to Porous Mixed-Conducting	**Oxygen** Electrodes in Solid-State Cells	1	142
Temperature Dependence of the	**Oxygen** Evolution Reaction on the Pb/PbO2 Electrode	1	70
Electrodeposited Tl2O3-Matrix Composites. II. Electrocatalysis of	**Oxygen** Evolution Reaction on Tl2O3/Co3O4 Composites	2	555
Surface Studies of CuxCo3-xO4 Electrodes for the Electrocatalysis of	**Oxygen** Evolution	7	2320
egions. II. Direct Exchange of Oxygen Vacancies Mathematical Modeling of	**Oxygen** Exchange and Transport in Air-Perovskite-Yttria-Stabilized Zirconia Interfac	4	1390
Radio-Frequency Reactively Sputtered VOx Thin Films Deposited at Different	**Oxygen** Flows	2	706
Quantitative Evaluation of Precipitated	**Oxygen** in Silicon by Infrared Spectroscopy. Still an Open Problem	5	1715
	Oxygen Incorporation during the Electrodeposition of Ni, Fe, and Ni-Fe Alloys	11	3699
Ceramic Microstructure and	**Oxygen** Permeability of SrCo(Fe,M)O3-delta (M = Cu or Cr) Perovskite Membranes	4	1363
Gettering of Iron to Implantation Induced Cavities and	**Oxygen** Precipitates in Silicon	4	1400
nhanced, Chemical Vapor Deposited Tantalum Oxide Films from Ta(OC2H5)5 and	**Oxygen** Precursors Ethanol-Addition-E	9	3247
hyrin Ion Complexes	**Oxygen** Reduction Characteristics of Heat-Treated Catalysts Based on Cobalt-Porp	3	815
Impedance Characteristics of	**Oxygen** Reduction at a Platinum Electrode in Alkaline Electrolyte	3	936
ctrochemical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for	**Oxygen** Reduction in Alkaline Solution Ele	6	1870
Impedance Studies of the	**Oxygen** Reduction on Thin Porous Coating Rotating Platinum Electrodes	7	2307
Pt Inclusion Compounds as	**Oxygen** Reduction Catalysts in Polymer-Electrolyte Fuel Cells	9	2985
Secondary-Ion Mass Spectrometry Active Sites Imaging for	**Oxygen** Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia Interface by	9	3196
Methanol Tolerant	**Oxygen** Reduction Catalysts Based on Transition Metal Sulfides	10	3463
ethoxyphenyl Porphyrin Supported on High-Area Carbon as an Electrocatalyst for	**Oxygen** Reduction. I. Characterization of the Electrocatalyst Heat-Treated Ir	10	3493
n Sputtered Cobalt-Carbon-Nitrogen Thin Films as	**Oxygen** Reduction Electrocatalysts. I. Physical and Electrochemical Characterizatio	10	3507
hanism Sputtered Cobalt-Carbon-Nitrogen Thin Films as	**Oxygen** Reduction Electrocatalysts. II. Electrochemical Stability and Proposed Mec	10	3513
Sensing Properties of an	**Oxygen** Sensor Using BaCe0.8Gd0.2O3-alpha Ceramics as Electrolytes	5	1744
	Oxygen Solubilities in Si Melts: The Influence of Carbon Addition	1	319
Kinetic Study of the Formation of	**Oxygen** Vacancy on Lanthanum Manganite Electrodes	2	373
in Air-Perovskite-Yttria-Stabilized Zirconia Interface Regions. II. Direct Exchange of	**Oxygen** Vacancies ✓ Mathematical Modeling of Oxygen Exchange and Trans	4	1390
	Oxygen Vacancies in SiO2 Layers on Si Produced at High Temperature	9	3157
Evaporation of	**Oxygen-Containing** Species from Boron-Doped Silicon Melts	7	2548
Mechanism of Amorphous Silica Film Formation from Tetraethoxysilane in Atomic	**Oxygen-Induced** Chemical Vapor Deposition	8	2866
y of Cathodic Electrodeposition of Zinc Oxide and Zinc Hydroxychloride Films from	**Oxygenated** Aqueous Zinc Chloride Solutions Mechanistic Stud	3	864
Oxidation Studies of Silicon	**Oxynitride** Ceramics	4	1355
Deposition and Chemical Composition of Silicon	**Oxynitride** from Methylsilazane in Ammonia and Nitrous Oxide	6	1902
Surface and Interface Roughness of Ultrathin Nitric Oxide	**Oxynitride** Gate Dielectric	1	L13
Interface States Distribution in Electrical Stressed	**Oxynitrided** Gate-Oxide	7	2489
Boron Diffusion in Silicon Oxides and	**Oxynitrides**	6	2068
Nitrogen Concentration Dependence on Boron Diffusion in Thin Silicon	**Oxynitrides** Used for Metal-Oxide-Semiconductor Devices	2	689
Effect of Gas Addition on	**Ozone** Ashing	12	4323
Contamination Removal by Single-Wafer Spin Cleaning with Repetitive Use of	**Ozonized** Water and Dilute HF	9	3278

— P —

port Property and Raman Spectroscopic Studies of the Polymer Electrolyte System	**P(EO)n-NaTFSI** Trans	5	1586
ers Effects of CoSi2 on	**p+** Polysilicon Gates Fabricated by BF2+ Implantation into CoSi/Amorphous Si Bilay	10	3590
W-Clad Layer Formation on Heavily Doped	**p+-Si** by Selective Chemical Vapor Deposition	12	4203
Electrochemical Stability of	**p-GaInP2** in Aqueous Electrolytes Toward Photoelectrochemical Water Splitting	10	3335
Photoelectrochemical Reduction of CO2 at High Current Densities at	**p-InP** Electrodes	5	L82
r Differential Electrochemical Mass Spectroscopy Applied to the Photocorrosion of	**p-InP(111)** Single Crystals A New Inlet System fo	2	576
ermoelectricity of Two-Phase Mixtures, Each with a Different Type Charge Carrier,	**p-NiO/n-ZnO** Th	3	1008
In Situ Characterization of the	**p-Si/NH4F** Interface during Dissolution in the Current Oscillations Regime	2	498
The Electrochemical Behavior of	**p-Type** (100) GaAs in Copper Sulfate Solution. Influence of Surface Conditions	9	3075
Macropore Formation in Highly Resistive	**p-Type** Crystalline Silicon	8	2958
Effect of Surface Iron on Photoconductivity Carrier Recombination Lifetime of	**p-Type** Silicon	5	1724
New Family of Boron-Based Anion Receptors and the Study of Their Effect on Ion	**Pair** Dissociation and Conductivity of Lithium Salts in Nonaqueous Solutions	8	2813
Nanofabrication of Small	**Palladium** Clusters on Au(111) Electrodes with a Scanning Tunnel Microscope	3	L33
ction Absorption Spectroscopy Studies of Sulfuric Acid Formation on Platinum and	**Palladium** Surfaces In Situ Infrared Refle	2	487
lectrodeposition Synthesis and Hydrogen Absorption Properties of Nanostructured	**Palladium-Iron** Alloy Films Pulsed E	10	3339

		Issue	Page
osition Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electroluminescent Flat	**Panel** Display Applications In Situ Pulsed Dep	12	4271
ilized ZrO2 Electrolyte. II. The Rates of Electrochemical Reactions Taking Place in	**Parallel** Electrochemical Oxidation in a CH4-H2O System at the Interface of	9	3117
Steady-State Modeling of a	**Parallel-Plate** Electrochemical Fluorination Reactor	10	3521
Profiles and Performance Curves in a	**Parallel-Plate** Reactor for the Electrochemical Fluorination of Hydrocarbons	5	1578
Power Measurements for Radio-Frequency Discharges with a	**Parallel-Plate-Type** Reactor	5	1701
Determination of the Diffusion Coefficient and Phase-Transfer Rate	**Parameter** in LaNi5 and MmNi3.6Co0.8Mn0.4Al0.3 Using Microelectrodes	11	3740
Comparison of Experiments with a Lumped	**Parameter** Model of the Plasma Assisted Chemical Vapor Deposition of Copper	2	694
from Tetraiodotitanium The Effects of Processing	**Parameters** in the Low-Temperature Chemical Vapor Deposition of Titanium Nitride	2	676
Estimation of Dissociation	**Parameters** of Electrolytes at High Temperatures from Specific Conductance Data	12	4107
/H2/Ar Gas Source Influence of Deposition	**Parameters** on the Texture of Chemical Vapor Deposited Tungsten Films by a WF6	9	3235
Effects of Experimental	**Parameters** on Void Formation in the Growth of 3C-SiC Thin Film on Si Substrate	1	292
r Deep Submicron Metal Oxide Semiconductor Field Effect Transistors	**Parasitic** Resistance Considerations of Using Elevated Source/Drain Technology fo	6	2131
Characterization of Crystal Quality by Crystal Originated	**Particle** Delineation and the Impact on the Silicon Wafer Surface	1	275
osphosilicate Glass Films Investigation of	**Particle** Generation during the Low-Pressure Chemical Vapor Deposition of Boroph	6	2051
Mechanism of	**Particle** Growth of a BaMgAl10O17:Eu2+ Phosphor by Firing with AlF3	11	3898
The Effect of	**Particle** Size on the Discharge Performance of a Nickel-Metal Hydride Cell	6	1840
A Mathematical Model for Intercalation Electrode Behavior. I. Effect of	**Particle-Size** Distribution on Discharge Capacity	3	771
ve Photoetching of CdS Nanoparticles as a Means of Preparation of Monodisperse	**Particles** Characteristic Features of Size-Selecti	6	1964
arge-Discharge Properties of Composite Films of Polyaniline and Crystalline V2O5	**Particles** Ch	8	2707
Atmospheric Corrosion of Copper in the Presence of Acid Ammonium Sulfate	**Particles**	3	946
Pt LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide Adsorbed on Platinum	**Particles** Dispersed in High-Area Carbon in Aqueous Electrolytes In Situ Re	1	80
The Impact of Graphite Furnace	**Parts** on Radial Impurity Distribution in Czochralski-Grown Single-Crystal Silicon	2	621
k Deposits on Successive Hydrogenation of 4-Methylstyrene with Active Hydrogen	**Passing** Through a Pd Sheet Electrode Effect of Pd Blac	1	138
Reactivation of	**Passivated** Iron Electrodes in a Magnetic Field	7	2214
Effects of Thermal N2 Annealing on	**Passivation** Capability of Sputtered Ta(-N) Layers Against Cu Oxidation	11	4029
O2-Plasma	**Passivation** Effects on Polysilicon Thin Film Transistors Using Ion Plating Method	1	252
ison of Corrosion Resistances Between Fe2O3-TiO2 Artificial Passivation Film and	**Passivation** Film on Fe-Ti Alloy Compar	8	2818
Comparison of Corrosion Resistances Between Fe2O3-TiO2 Artificial	**Passivation** Film and Passivation Film on Fe-Ti Alloy	8	2818
tride Layers	**Passivation** of Cu by Sputter-Deposited Ta and Reactively Sputter-Deposited Ta-Ni	9	3170
Electrochemical	**Passivation** of Ordered NiAl	6	2024
Chemical and Electrochemical	**Passivation** of PbSe Thin Layers Grown by Molecular Beam Epitaxy	2	512
Examination of the Role of Molybdenum in	**Passivation** of Stainless Steels Using AC Impedance Spectroscopy	5	1462
The Effects of Fluorine	**Passivation** Using SF6 Plasma on the Corrosion of Al(Cu 1%) at Grain Boundaries	3	1044
The Li4Ti5O12//PAN Electrolyte//LiMn2O4 Rechargeable Battery with	**Passivation-Free** Electrodes	8	2615
ment of Pitting Corrosion Resistance of Type 304 Stainless Steel by Modification of	**Passive** Film with Ultraviolet Light Irradiation Improve	5	L79
arison of the Semiconductive Properties of Sputter-Deposited Iron Oxides with the	**Passive** Film on Iron Comp	2	378
Electrochemical Behavior of Cr2O3/Fe2O3 Artificial	**Passive** Films Studied by In Situ XANES	3	791
Acid-Base Properties of	**Passive** Films on Aluminum. I. A Photoelectrochemical Study	3	823
bsorption Near Edge Structure Study Acid-Base Properties of	**Passive** Films on Aluminum. II. An X-Ray Photoelectron Spectroscopy and X-Ray A	3	829
X-Ray Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study of	**Passive** Films Formed on (100) Fe-18Cr-13Ni Single-Crystal Surfaces	3	909
Semiconducting Properties of	**Passive** Films Formed on Stainless Steels. Influence of the Alloying Elements	11	3821
Effect of Low-Temperature Conditions on	**Passive** Layer Growth on Li Intercalation Materials. In Situ Impedance Study	8	2711
Wear-Accelerated Corrosion of	**Passive** Metals in Tribocorrosion Systems	3	750
Characterization of the	**Passive** State on Zinc	9	3141
Carbonate and Dimethoxyethane	**Passivity** and Breakdown of Carbon Steel in Organic Solvent Mixtures of Propylene	7	2396
The	**Passivity** and Breakdown of Beryllium in Aqueous Solutions	8	2799
miconducting Properties Iron	**Passivity** in Borate Buffer. Formation of a Deposit Layer and Its Influence on the Se	2	609
hotoelectron Spectroscopy and Ion Scattering Spectroscopy The	**Passivity** of Fe/Si Alloys in Aqueous Electrolytes at pH 5 and 9 Studied by X-Ray P	3	834
The Influence of Sulfate-Reducing Bacteria on the	**Passivity** of Type 317L Austenitic Stainless Steel	6	1914
trol The Impact of the Operation Mode on	**Pattern** Formation in Electrode Reactions. From Potentiostatic to Galvanostatic Con	7	2404
A Novel Nanolithographic Concept Using Crack-Assisted	**Patterning** and Self-Alignment Technology	6	2120
Dry Etch	**Patterning** of LaCaMnO3 and SmCo Thin Films	7	2512
Wet Etching of Al2O3 for Selective	**Patterning** of Microstructures Using Ar+ Ion Implantation and H3PO4	1	344
Temperature Dependence of the Oxygen Evolution Reaction on the	**Pb/PbO2** Electrode	1	70
Chemical and Electrochemical Passivation of	**PbSe** Thin Layers Grown by Molecular Beam Epitaxy	2	512
rogen Passing Through a Pd Sheet Electrode Effect of	**Pd** Black Deposits on Successive Hydrogenation of 4-Methylstyrene with Active Hyd	1	138
Formation of Catalytic	**Pd** on ZnO Thin Films for Electroless Metal Deposition	10	3378
essive Hydrogenation of 4-Methylstyrene with Active Hydrogen Passing Through a	Pd Sheet Electrode Effect of Pd Black Deposits on Succ	1	138
ution The Electrochemical Performance of	**Pd-Coated** Metal Hydride Electrodes with Different Binding Additives in Alkaline Sol	12	4169
Thermodynamic Properties of	**Pd-Li** Alloys	3	785
phenoxyacetic Acid in Aqueous Solution	**Pd-Loaded** Carbon Felt as the Cathode for Selective Dechlorination of 2,4-Dichloro	11	3844
The Phase-Shift Method for the Frumkin Adsorption Isotherms at the	**Pd/H2SO4** and KOH Solution Interfaces	11	3794
Single-Electrode	**Peltier** Heats of Li-Si Alloy Electrodes in LiCl-KCl Eutectic Melt	6	1986
State Generation of Mo Gate Metal Oxide Semiconductor Devices Caused by Mo	**Penetration** into Gate Oxide Surface	4	1297
Investigation of Boron	**Penetration** Through Thin Gate Dielectrics Including Role of Nitrogen and Fluorine	7	2545
Lithium Metal Electrode Interfacial Properties. I. Electrochemical Properties of Dry	**PEO-LiX** System Composite Polymer Electrolytes with Improved	12	4128
Electrodeposition of Amorphous Fe2O3 Films by Reduction of Iron	**Perchlorate** in Acetonitrile	2	385
uartz Crystal Microbalance Study of the Dissolution Process of a Gold Electrode in	**Perchloric** Acid Solution Containing Chloride Ion An In Situ Electrochemical	5	1614
tz Crystal Microbalance Studies of Poly(ortho-toluidine) Films Exposed to Aqueous	**Perchloric** Acid Solutions Electrochemical Quar	8	2640
	Perforated Covers for Propagating Pits	4	1101
Effect of Mixed-Conducting Interfacial Layers on Solid Oxide Fuel Cell Anode	**Performance**	5	1696
ism of Alloy Corrosion and Consequences on Sealed Nickel-Metal Hydride Battery	**Performance** Mechan	3	860
Characteristics and Effects of gamma-NiOOH on Cell	**Performance** and a Method to Quantify It in Nickel Electrodes	1	116
ynthesized by a Novel Oxidative Coprecipitation Method and Their Electrochemical	**Performance** as Lithium Insertion Electrode Materials Characterization of La	4	1113
n of Hydrocarbons Profiles and	**Performance** Curves in a Parallel-Plate Reactor for the Electrochemical Fluorinatio	5	1578
Lithiated Nickel Oxide Electrode	**Performance** in Molten K2S2O7/V2O5 and K2SO4/V2O5 Systems	3	892
The Effect of Particle Size on the Discharge	**Performance** of a Nickel-Metal Hydride Cell	6	1840
emperature Solid Oxide Fuel Cells. Effects of Composition and Microstructures on	**Performance** of Ceria-Based Anodes High-Performance Electrode for Medi	2	615
lation Between Charge/Discharge Rates and Morphology, Surface Chemistry, and	**Performance** of Li Electrodes and the Connection to Cycle Life of Practical Batterie	5	1421
e Role of 8 mol % Yttria Stabilized Zirconia in the Improvement of Electrochemical	**Performance** of Lanthanum Manganite Composite Electrodes Th	6	1932
s in Alkaline Solution The Electrochemical	**Performance** of Pd-Coated Metal Hydride Electrodes with Different Binding Additive	12	4169
Analysis of Fuel Utilization	**Performance** of Round Substrate, Planar Solid Oxide Fuel Cells	3	931
Influence of Overpolish Time on the	**Performance** of W Damascene Technology	4	1285
kel Oxide Changes in Structure and Cathode	**Performance** with Composition and Preparation Temperature of Lithium Cobalt Nic	3	730
Ceramic Microstructure and Oxygen	**Permeability** of SrCo(Fe,M)O3-delta (M = Cu or Cr) Perovskite Membranes	4	1363
Correlation Between Acoustic Emission Signals and Hydrogen	**Permeation** in High Strength, Low Alloy Steel Cracking in Wet H2S	6	1968
Model and Experimental Study Characterization of Hydrogen	**Permeation** Through Zinc-Nickel Alloys under Corroding Conditions. Mathematical	6	1907
ic Microstructure and Oxygen Permeability of SrCo(Fe,M)O3-delta (M = Cu or Cr)	**Perovskite** Membranes Ceram	4	1363
of Doping Strontium to LaMnO3 on the Electrode Properties Preparation of	**Perovskite-Type** La1-xSrxMnO3 Films by Vapor-Phase Processes and Their Electr	6	1999
The Effects of Dopants and A:B Site Nonstoichiometry on Properties of	**Perovskite-Type** Proton Conductors	5	1780
Synthesis and Properties of Mixed Lanthanide Chromite	**Perovskites**	12	4282
Sr- and Ni-Doped LaCoO3 and LaFeO3	**Perovskites**. New Cathode Materials for Solid-Oxide Fuel Cells	9	3220
of 4-Chlorophenol by Anodic Oxidation, Electro-Fenton, Photoelectro-Fenton, and	**Peroxi-Coagulation** Processes Degradation	3	759
Nonlinear Phenomena during the Reduction of Hydrogen	**Peroxide** in Alkaline Solution Involving Mass Transfer	11	3857
Impact of Iron Contamination and Roughness Generated in Ammonia Hydrogen	**Peroxide** Mixtures (SC1) on 5 nm Gate Oxides	7	2589
on of Metal Ions onto Hydrophilic Silicon Surfaces from Aqueous Solution: Effect of	**pH** Adsorpti	8	2841
roscopy The Passivity of Fe/Si Alloys in Aqueous Electrolytes at	**pH** 5 and 9 Studied by X-Ray Photoelectron Spectroscopy and Ion Scattering Spect	3	834
ectivity Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film Modified Electrodes: Effect of	**pH** and Counterion A Neutron Refl	5	1454

		Issue	Page
Electrochemical Identification of the Hydrogen Sulfide System Using a	**pH2S** (glass/Ag, Ag2S) Electrode	1	77
emical Properties of Over-stoichiometric ZrMn1-xVxNi1.4+y Alloys with C15 Laves	**Phase** Electroch	1	93
Evaluation of Zr(Ni,Mn)2 Laves	**Phase** Alloys as Negative Active Material for Ni-MH Electric Vehicle Batteries	5	1478
Boron in Polycrystalline SixGe1-x Films.	**Phase** Diagram and Solid Solubility	7	2530
Ternary Compounds and	**Phase** Equilibria in Ti-Ge-C and Ti-Ge-B	9	3253
Crystal Structure of Tetrabasic Lead Sulfate (4PbO.PbSO4). An Intermediate	**Phase** in the Production of Lead-Acid Batteries	2	528
Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ EQCM and	**Phase** Measurement Interferometric Microscopy Electrochemical Behavior a	7	2369
Electrodeposited TiO2-Matrix Composites. I. Effect of the Dispersed	**Phase** on Nucleation and Growth of the Matrix	2	549
Electrochemical Quartz Crystal Microbalance A Study on the	**Phase** Transformation of Electrochemically Precipitated Nickel Hydroxides Using an	2	507
ynthesis of MnO2 Phases from LiMn2O4 in Aqueous Acidic Media. Mechanisms of	**Phase** Transformations, Reactivity, and Effect of Bi Species S	10	3392
Chemical Sensors with Catalytic Metal Gates. Switching Behavior and Kinetic	**Phase** Transitions	10	3401
OH Solution Interfaces The	**Phase-Shift** Method for the Frumkin Adsorption Isotherms at the Pd/H2SO4 and K	11	3794
roelectrodes Determination of the Diffusion Coefficient and	**Phase-Transfer** Rate Parameter in LaNi5 and MmNi3.6Co0.8Mn0.4Al0.3 Using Mic	11	3740
ides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of Thin Films and Bulk	**Phases** Lithium Manganese Nickel Ox	12	4148
le Solid Solutions Thermodynamic Behavior of Various	**Phases** Appearing in the CeZrO4-CeZrO3.5 System and the Formation of Metastab	4	1406
tions, Reactivity, and Effect of Bi Species Synthesis of MnO2	**Phases** from LiMn2O4 in Aqueous Acidic Media. Mechanisms of Phase Transforma	10	3392
Mechanistic Aspects of	**Phenol** Electrochemical Degradation by Oxidation on a Ta/PbO2 Anode	10	3427
Voltammetric Studies of the Behavior of Carbon Black during	**Phenol** Oxidation on Ti/Pt Electrodes	8	2763
Thermocapillary	**Phenomena** and Bubble Coalescence during Electrolytic Gas Evolution	6	1848
Mass Transfer and Kinetic	**Phenomena** at the Nickel Hydroxide Electrode	11	3860
ng Mass Transfer Nonlinear	**Phenomena** during the Reduction of Hydrogen Peroxide in Alkaline Solution Involvi	11	3857
Steady-State Multiplicity	**Phenomena** in the Deposition of Silicon Carbide	11	3908
ymer Electrolyte Proton-Conducting Membranes	**Phenomenological** Theory of Electro-osmotic Effect and Water Management in Pol	8	2684
Analysis of Surface Carbon Contamination on	**Phosphated** Zinc Surfaces by Scanning Kelvin Probe Measurements	3	L39
Direct Observation of Anodic Films Formed on Gallium	**Phosphide** in Aqueous Tungstate Electrolyte	9	3011
Mechanism of Particle Growth of a BaMgAl10O17:Eu2+	**Phosphor** by Firing with AlF3	11	3898
Mechanism of Luminance Decrease in BaMgAl10O17:Eu2+	**Phosphor** by Oxidation	11	3903
Effects of SnO2 on the	**Phosphor** Screen Behaviors under Low Energy Electron Excitation	2	648
Agglomerate Model for DC and AC Response of	**Phosphoric** Acid Fuel Cell Cathode	1	45
Growth Kinetics and Morphology of Porous Anodic Alumina Films Formed Using	**Phosphoric** Acid	8	2699
Aluminum and Aluminum Alloy Dissolution in Concentrated	**Phosphoric** Acid	12	4067
f Electron-Beam Induced Degradation by Rare Earth Doping in Y3(Al,Ga)5O12:Tb	**Phosphors** Reduction o	1	270
A Study of the Adhesion of Electrophoretically Deposited	**Phosphors**	4	1245
Predicting and Modeling the Low-Voltage Cathodoluminescent Efficiency of Oxide	**Phosphors**	9	3165
A New Synthetic Method to Prepare Spherical	**Phosphors** for Emissive Screen Applications	3	1017
Growth and Characterization of Eu:Y2O3 Thin-Film	**Phosphors** on Silicon and Diamond-Coated Silicon Substrates	10	3456
quenching Excitation	**Photocapacitance** Study of Ionized Levels in n-Type GaAs Observed during Photo	8	2892
ods	**Photochemical** and Photoelectrochemical Behavior of a Novel TiO2/Ni(OH)2 Electr	7	2380
Sensors for Detecting Sub-ppm NO2 Using	**Photochemically** Produced Amorphous Tungsten Oxide	12	4219
c Contamination Laser Microwave	**Photoconductance** Studies of Ultraviolet-Irradiated Silicon Wafers. Effect of Metalli	1	329
Effect of Surface Iron on	**Photoconductivity** Carrier Recombination Lifetime of p-Type Silicon	5	1724
Force Microscopy and X-Ray Diffraction Studies	**Photocorrosion** of Coupled CdS/CdSe Photoelectrodes Coated with ZnO. Atomic	10	3535
ew Inlet System for Differential Electrochemical Mass Spectroscopy Applied to the	**Photocorrosion** of p-InP(111) Single Crystals A N	2	576
Equivalent Circuit Modeling of the AgAs0.24S0.36Ag0.40Ag System Prepared by	**Photodissolution** of Ag	9	2971
Degradation of 4-Chlorophenol by Anodic Oxidation, Electro-Fenton,	**Photoelectro-Fenton**, and Peroxi-Coagulation Processes	3	759
	Photoelectrocatalytic Study of Water Oxidation at n-RuS2 Electrodes	1	216
Photochemical and	**Photoelectrochemical** Behavior of a Novel TiO2/Ni(OH)2 Electrode	7	2380
ion of Stainless Steels Using Submicron Resolution Scanning Electrochemical and	**Photoelectrochemical** Microscopy Elucidation of a Trigger Mechanism for	8	2664
das	**Photoelectrochemical** Reduction of CO2 at High Current Densities at p-InP Electro	5	L82
A Plasticized Polymer-Electrolyte-Based	**Photoelectrochemical** Solar Cell	1	121
Acid-Base Properties of Passive Films on Aluminum. I. A	**Photoelectrochemical** Study	3	823
Electrochemical Stability of p-GaInP2 in Aqueous Electrolytes Toward	**Photoelectrochemical** Water Splitting	10	3335
Studies Photocorrosion of Coupled CdS/CdSe	**Photoelectrodes** Coated with ZnO. Atomic Force Microscopy and X-Ray Diffraction	10	3535
Acid-Base Properties of Passive Films on Aluminum. II. An X-Ray	**Photoelectron** Spectroscopy and X-Ray Absorption Near Edge Structure Study	3	829
e Passivity of Fe/Si Alloys in Aqueous Electrolytes at pH 5 and 9 Studied by X-Ray	**Photoelectron** Spectroscopy and Ion Scattering Spectroscopy Th	3	834
Films Formed on (100) Fe-18Cr-13Ni Single-Crystal Surfaces X-Ray	**Photoelectron** Spectroscopy and Scanning Tunneling Microscopy Study of Passive	3	909
articles Characteristic Features of Size-Selective	**Photoetching** of CdS Nanoparticles as a Means of Preparation of Monodisperse P	6	1964
nnealing	**Photoluminescence** of Semi-insulating InP Wafers Prepared by Two-Step Wafer A	3	1048
ll Trialkyl Derivatives	**Photoluminescence** Studies of Cadmium Selenide Crystals in Contact with Group I	7	2475
itters On the Correlation of Aqueous and Nonaqueous In Situ and Ex Situ	**Photoluminescent** Emissions from Porous Silicon. Evidence for Surface-Bound Em	9	3284
itation Photocapacitance Study of Ionized Levels in n-Type GaAs Observed during	**Photoquenching** Exc	8	2892
Electrochemical Studies of Carbon Films from Pyrolyzed	**Photoresist**	7	2314
Current Evolution of Electrodeposited Copper Bumps with	**Photoresist** Angle	3	840
Mathematical Modeling of Soft Baking in	**Photoresist** Processing	12	4256
during Water Splitting Reactions Stability and	**Photoresponse** of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Film Electrodes	1	89
Decrease of Recombination Losses in Bicomponent WO3/TiO2 Films	**Photosensitized** with Cresyl Violet and Thionine	11	3981
s A Study of Rapid	**Photothermal** Annealing of Sputtered Lead Lanthanum Zirconia Titanate Thin Film	12	4317
Fast-Feedback Iron Contamination Monitoring Using Surface	**Photovoltage** Measurements	2	701
Denuded Zone Thickness from Surface	**Photovoltage** Measurements. Comparison with Microscopy Techniques	5	1632
14.1% CuIn1-xGaxSe2-Based	**Photovoltaic** Cells from Electrodeposited Precursors	10	3435
Surface States and	**Photovoltaic** Effects in CdSe Quantum Dot Films	5	1748
essing A 10% Cu(In,Ga)Se2 Based	**Photovoltaic** Structure Formed by Electrodeposition and Subsequent Thermal Proc	10	3613
Monolithic, Self-Powered	**Photovoltaic-Electrochromic** Coating for Windows	10	3545
ttered Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction Electrocatalysts. I.	**Physical** and Electrochemical Characterization Spu	10	3507
Behavior of Silver in	**Physiological** Solutions	5	1426
ation of Polypyrrole Nanostructures on Highly Ordered Pyrolytic Graphite Step and	**Pit** Defects Template Electropolymeriz	10	3320
Perforated Covers for Propagating	**Pits**	4	1101
Czochralski-Silicon Surface	**Pits** Observed on SiO2 Thermally Grown at High Temperatures on (111)-Oriented	6	2143
Metastable	**Pitting** and the Critical Pitting Temperature	8	2622
The	**Pitting** Behavior of Iron-Chromium Thin Film Alloys in Hydrochloric Acid	5	1566
Film with Ultraviolet Light Irradiation Improvement of	**Pitting** Corrosion Resistance of Type 304 Stainless Steel by Modification of Passive	5	L79
Determination of Precursor Sites for	**Pitting** Corrosion of Polycrystalline Titanium by Using Different Techniques	6	2005
	Pitting Corrosion of Metals. A Review of the Critical Factors	6	2196
d Photoelectrochemical Microscopy Elucidation of a Trigger Mechanism for	**Pitting** Corrosion of Stainless Steels Using Submicron Resolution Scanning Electro	8	2664
	Pitting in Aluminum Thin Films. Supersaturation and Effects of Dichromate Ions	8	2834
Metastable Pitting and the Critical	**Pitting** Temperature	8	2622
O3-Stabilized ZrO2 Electrolyte. II. The Rates of Electrochemical Reactions Taking	**Place** in Parallel Electrochemical Oxidation in a CH4-H2O System at the Inte	9	3117
Analysis of Fuel Utilization Performance of Round Substrate,	**Planar** Solid Oxide Fuel Cells	3	931
The Effects of Post Chemical Mechanical	**Planarization** Buffing on Defect Density of Tungsten and Oxide Wafers	12	4240
An Investigation of Slurry Chemistry Used in Chemical Mechanical	**Planarization** of Aluminum	6	2074
Ionic Mass-Transfer Rates Associated with Natural Convection along a	**Plane** Vertical Anode Measured by Two-Wavelength Holographic Interferometry	11	3814
Dry Etching of Deep Si Trenches for Released Resonators in a Cl2	**Plasma**	5	1767
High-Concentration Arsenic-Doped Silicon Hydrogenated by Microwave	**Plasma**	3	1028
Etching of SiC Using Inductively Coupled	**Plasma**	10	3609
Comparison of Experiments with a Lumped Parameter Model of the	**Plasma** Assisted Chemical Vapor Deposition of Copper	2	694
tion of the Bias-Enhanced Nucleation and Growth of Diamond Films by Microwave	**Plasma** Chemical Vapor Deposition Structural Investiga	6	2095
Copper Dry Etching with Cl2/Ar	**Plasma** Chemistry	7	2585
rs High Density	**Plasma** Damage in InGaP/GaAs and AlGaAs/GaAs High Electron Mobility Transisto	11	4036

		Issue	Page
Nitrogen Incorporation in Thin Silicon Oxides in a N2O	**Plasma**. Effects of Processing Conditions	2	862
reparation of a-SiNx Thin Film with Low Hydrogen Content by Inductively Coupled	**Plasma** Enhanced Chemical Vapor Deposition P	2	652
rphous Hydrogenated Silicon Films for Solar Cell Application Obtained with 55 kHz	**Plasma** Enhanced Chemical Vapor Deposition Amo	7	2508
Microcrystalline Silicon Film Deposition from H2-He-SiH4 Using Remote	**Plasma** Enhanced Chemical Vapor Deposition	8	2900
Cl2-Based Inductively Coupled	**Plasma** Etching of NiFe and Related Materials	11	4025
d Iodofluorocarbon Chemistries for a High Aspect Ratio Via Etch in a High Density	**Plasma** Etch Tool Use of Novel Hydrofluorocarbon an	12	4305
Decomposition of Trichloroethylene by Microwave-Induced	**Plasma** Generated from SiC Whiskers	1	229
Effect of Chlorine Species on Diamond Deposition from	**Plasma** Jets with Chlorobenzenes as Carbon Sources	8	2895
The Effects of Fluorine Passivation Using SF6	**Plasma** on the Corrosion of Al(Cu 1%) at Grain Boundaries	3	1044
Fluorocarbon Polymer Deposited by Inductively Coupled	**Plasma** Oxide Etching	4	L67
SiOF Film Deposition Using FSi(OC2H5)3 Gas in a Helicon	**Plasma** Source	7	2576
Reduction in Contact Resistance with In Situ O2	**Plasma** Treatment	7	2480
Low Temperature Copper Etching Using an Inductively Coupled	**Plasma** with Ultraviolet Light Irradiation	3	L37
Chemical Reactions in	**Plasma-Assisted** Chemical Vapor Deposition of Titanium	7	2588
Modeling	**Plasma-Assisted** Deposition of Diamond-Like Carbon Films	12	4332
Hydrogen Evolution on Thin-Film Deposited Electrodes Prepared by a	**Plasma-Based** Technique	9	3150
Effect of Fluorine on Surface Morphology in Selective Epitaxial TiSi2 Growth by	**Plasma-Enhanced** Chemical Vapor Deposition	5	1640
a Boron Implant Profile The Effect of Low-Pressure and	**Plasma-Enhanced** Chemical Vapor Deposited Tetraethylorthosilicate Oxide Film on	5	1677
Highly Stable Vanadium Oxide Cathodes Prepared by	**Plasma-Enhanced** Chemical Vapor Deposition	6	1889
Optical Properties in Polycrystalline Silicon Films Prepared at Low Temperature by	**Plasma-Enhanced** Chemical Vapor Deposition Relationship Between Struct	10	3615
Remote	**Plasma-Enhanced** Chemical Vapor Deposition of SiO2 Using Ar/N2O and SiH4	11	3957
Surface Roughness of Reactive Ion Etched 4H-SiC in SF6/O2 and CHF3/H2/O2	**Plasmas**	4	L58
tion Rates for a-Si1-xCx:H Films Deposited from Pulsed and Continuous Wave RF	**Plasmas** Comparison of Oxida	9	3271
Differential Scanning Calorimetry Study of the Reactivity of Carbon Anodes in	**Plastic** Li-Ion Batteries	2	472
Modeling of Anodic Current Transients Resulting from Oxide Rupture of	**Plastically** Strained Beta + Alpha Titanium	6	1829
A	**Plasticized** Polymer-Electrolyte-Based Photoelectrochemical Solar Cell	1	121
Network Polymer Electrolytes with Free Chain Ends as Internal	**Plasticizer**	5	1521
The Role of Oxygen at the Second Discharge	**Plateau** of Nickel Hydroxide	1	34
Electrochemical Resistance Noise during Composite	**Plating**	2	436
heoretical Analysis of the Effect of Inert Blocking Agent on the Galvanostatic Pulse	**Plating** A T	11	3851
Determination of Chemical Species and Their Composition in Ni-Mo Alloy	**Plating** Baths by Factor Analysis of Visible Absorption Spectra	2	523
O2-Plasma Passivation Effects on Polysilicon Thin Film Transistors Using Ion	**Plating** Method	1	252
Modeling the Galvanostatic Pulse and Pulse Reverse	**Plating** of Nickel-Iron Alloys on a Rotating Disk Electrode	6	2033
Infrared Reflection Absorption Spectroscopy Studies of Sulfuric Acid Formation on	**Platinum** and Palladium Surfaces In Situ	2	487
Impedance Characteristics of Oxygen Reduction at a	**Platinum** Electrode in Alkaline Electrolyte	3	936
Impedance Studies of the Oxygen Reduction on Thin Porous Coating Rotating	**Platinum** Electrodes	7	2307
The Electrocatalytic Oxidation of Methanol at Finely Dispersed	**Platinum** Nanoparticles in Polypyrrole Films	1	124
eal-Time Pt LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide Adsorbed on	**Platinum** Particles Dispersed in High-Area Carbon in Aqueous Electrolytes I	1	80
Modeling the Twin	**Platinum** Probe Scanning Electrode Response	12	4074
edox Behavior of Junctioned SrTiO3	**pO2-Dependent** Nonohmic Current-Voltage Characteristics and Current-Induced R	4	1165
in CZ-Si Influence of Residual	**Point** Defect Supersaturation on the Formation of Grown-In Oxide Precipitate Nuclei	5	L75
ki-Grown Silicon Crystals	**Point** Defect Dynamics and the Oxidation-Induced Stacking-Fault Ring in Czochrals	1	302
Morphological Changes at the Interface of the Nickel-Yttria Stabilized Zirconia	**Point** Electrode	7	2244
The Realization of Silicon-on-Insulator Utilizing Trench-before-Bond and	**Polish** Stop Technology	5	1738
al Investigation of Tungsten Electrochemical Behavior during Chemical Mechanical	**Polishing** In Situ Electrochemic	9	3190
Tungsten Chemical-Mechanical	**Polishing**	5	1659
logy Framework for Identifying Sources of Variation in Oxide Chemical Mechanical	**Polishing** A Novel Statistical Metro	3	1052
Wear-Contact Problems and Modeling of Chemical Mechanical	**Polishing**	6	2100
Present and Future Role of Chemical Mechanical	**Polishing** in Wafer Bonding	6	2198
Silicon Nitride Chemical Mechanical	**Polishing** Mechanisms	11	3919
Tribochemical	**Polishing** of Silicon Nitride	5	1708
Substrate Effects on Hardness and	**Polishing** of SiO2 Thin Films	5	1790
Fast Optical Spectroscopy of the Electrochemical Doping of	**Poly(3,4-ethylenedioxythiophene)**	11	3810
teries Charge-Discharge Properties of Composite of Synthetic Graphite and	**Poly(3-n-hexylthiophene)** as an Anode Active Material in Rechargeable Lithium-Io	5	1415
Electrochemical Quartz Crystal Microbalance Studies of	**Poly(ortho-toluidine)** Films Exposed to Aqueous Perchloric Acid Solutions	8	2640
Proton and Methanol Transport in	**Poly(perfluorosulfonate)** Membranes Containing Cs+ and H+ Cations	11	3798
Preparation and Characterization of	**Poly(vinyl** chloride-co-vinyl acetate)-Based Gel Electrolytes for Li-Ion Batteries	4	1207
Time-Resolved Mono-anion, Di-anion, and Solvent Transfers into a	**Poly(vinylferrocene)-Modified** Electrode	2	L24
Effect of Temperature on the Voltammetric Behavior of	**Poly-o-toluidine**	10	3530
Preparation of Micron-Sized Li4Ti5O12 and Its Electrochemistry in	**Polyacrylonitrile** Electrolyte-Based Lithium Cells	8	2609
ductivity and Spectroscopic Study of Ionic Transport Mechanism in Fire-Retardant	**Polyacrylonitrile-Based** Gel Electrolytes for Li Polymer Batteries An Ionic C	3	881
Charge-Discharge Properties of Composite Films of	**Polyaniline** and Crystalline V2O5 Particles	8	2707
gravimetric/Mass and Infrared Spectroscopic Properties and Humidity Sensitivity of	**Polyaniline** Derivatives/Polyvinyl Alcohol Composites Thermo	10	3351
Comparative Study of the Electrochemical Behavior of	**Polycrystalline** and Nanocrystalline Ru Powder in NaOH Solution	5	1624
Microstructural Changes in a	**Polycrystalline**, Semiconducting Oxide under DC Electric Fields	12	4243
The Kinetics of the Low-Pressure Chemical Vapor Deposition of	**Polycrystalline** Silicon from Silane	4	1318
The Thermal Stability of CoSi2 on	**Polycrystalline** Silicon: The Effect of Silicon Grain Size and Metal Thickness	4	1384
New Charge Pumping Model and Characterization of Process-Dependent Traps in	**Polycrystalline** Silicon Thin Film Transistors A	8	2883
Vapor Deposition Relationship Between Structural and Optical Properties in	**Polycrystalline** Silicon Films Prepared at Low Temperature by Plasma-Enhanced	10	3615
Optical Monitoring of Capacitance in Hemispherical Grain	**Polycrystalline** Silicon for Advanced Dynamic Random Access Memory Application	11	3935
Boron in	**Polycrystalline** SixGe1-x Films. Phase Diagram and Solid Solubility	7	2530
Determination of Precursor Sites for Pitting Corrosion of	**Polycrystalline** Titanium by Using Different Techniques	6	2005
Modification of the Lithium Metal Surface by Nonionic	**Polyether** Surfactants: Quartz Crystal Microbalance Studies	7	2340
Copper Deposition in the Presence of	**Polyethylene** Glycol. I. Quartz Crystal Microbalance Study	10	3472
Copper Deposition in the Presence of	**Polyethylene** Glycol. II. Electrochemical Impedance Spectroscopy	10	3477
/Propylene Carbonate An Investigation of Composite Electrolytes by Mixing	**Polyethylene** Oxide- and Polytetramethylene Glycol-Based Waterborne Polyuretha	10	3450
A Study on the Microphysical Mechanisms of Adsorption in	**Polyimide** Layers for Microelectronic Applications	11	4012
Electrochemical Synthesis of	**Polyindole** and Its Evaluation for Rechargeable Battery Applications	3	999
Characterization of Electropolymerized	**Polyindole**. Application in the Construction of a Solid-State, Ion-Selective Electrode	12	4103
icrobiosensor for Creatinine Based on the Combination of Inactive Polypyrrole with	**Polyion** Complexes Highly Sensitive M	2	406
Mechanistic Studies of CO2 Reduction on a Mediated Electrode with Conducting	**Polymer** and Inorganic Conductor Films	11	3801
nsport Mechanism in Fire-Retardant Polyacrylonitrile-Based Gel Electrolytes for Li	**Polymer** Batteries An Ionic Conductivity and Spectroscopic Study of Ionic Tr	3	881
The Thermal Stability of Lithium	**Polymer** Batteries	7	2327
Electrochemistry of Anodes in Solid-State Li-Ion	**Polymer** Batteries	9	3135
of 2,5-Dimercapto-1,3,4-thiadiazole in Acetonitrile Organosulfur/Conducting	**Polymer** Composite Cathodes. I. Voltammetric Study of the Polymerization and Dep	6	1893
Fluorocarbon	**Polymer** Deposited by Inductively Coupled Plasma Oxide Etching	4	L67
Study of Ion-Transport Properties in	**Polymer** Electrolytes Using a Novel Electrochemical Method	3	744
Analyses of Self-Humidification and Suppression of Gas Crossover in Pt-Dispersed	**Polymer** Electrolyte Membranes for Fuel Cells	4	1137
Network	**Polymer** Electrolytes with Free Chain Ends as Internal Plasticizer	5	1521
Transport Property and Raman Spectroscopic Studies of the	**Polymer** Electrolyte System P(EO)n-NaTFSI	5	1586
ers for Rechargeable Lithium-Polymer Batteries	**Polymer** Electrolytes Based on Acrylonitrile-Methyl Methacrylate-Styrene Terpolym	6	1958
Phenomenological Theory of Electro-osmotic Effect and Water Management in	**Polymer** Electrolyte Proton-Conducting Membranes	8	2684
Improved Preparation Process of Very-Low-Platinum-Loading Electrodes for	**Polymer** Electrolyte Fuel Cells	11	3708
Kolbe Electrolysis of Acetic Acid in a	**Polymer** Electrolyte Membrane Reactor	11	3728
Electrochemical Properties of Dry PEO-LiX System Composite	**Polymer** Electrolytes with Improved Lithium Metal Electrode Interfacial Properties. I	12	4126
. Application in Rechargeable Batteries Composite	**Polymer** Electrolytes with Improved Lithium Metal Electrode Interfacial Properties. II	12	4133
A Neutron Reflectivity Study of[Os(bipy)2(PVP)10Cl]+	**Polymer** Film Modified Electrodes: Effect of pH and Counterion	5	1454
Protection of Copper Corrosion by an Ultrathin Two-Dimensional	**Polymer** Film of Alkanethiol Monolayer	6	1856

		Issue	Page
Behavior of Raipore Radiation-Grafted	**Polymer** Membranes in H2/O2 Fuel Cells	3	780
Pt Inclusion Compounds as Oxygen Reduction Catalysts in	**Polymer-Electrolyte** Fuel Cells	9	2985
A Plasticized	**Polymer-Electrolyte-Based** Photoelectrochemical Solar Cell	1	121
Changes in the Electrochemical Behavior of	**Polymeric** Carbon Induced by Heat-Treatment and Doping with Lithium Ions	3	721
ganosulfur/Conducting Polymer Composite Cathodes. I. Voltammetric Study of the	**Polymerization** and Depolymerization of 2,5-Dimercapto-1,3,4-thiadiazole in Aceto	6	1893
g Diphenylamine Coupling Electro-oxidative	**Polymerization** and Spectroscopic Characterization of Novel Amide Polymers Usin	8	2648
Lithium Insertion into Disordered Carbons Prepared from Designed Organic	**Polymers**	9	3123
Application of Laser-Cleaning Technique for Efficient Removal of Via-Etch-Induced	**Polymers**	11	3966
lectro-oxidative Polymerization and Spectroscopic Characterization of Novel Amide	**Polymers** Using Diphenylamine Coupling E	8	2648
Enhancement in Chemical Interaction at Conducting	**Polymers/n-Si** Interfaces by Their Electroreduction	2	711
Reactive Ion Etching of Silicon Containing	**Polynorbornenes**	4	1257
Properties of	**Polyphenylquinoxaline** Acid Complex as an Electrode Material	4	1193
lectrocatalytic Oxidation of Methanol at Finely Dispersed Platinum Nanoparticles in	**Polypyrrole** Films The E	1	124
Electrochemical Quartz Crystal Microbalance Studies of	**Polypyrrole** Growth on Self-Assembled Nucleation Sites	5	1483
cts Template Electropolymerization of	**Polypyrrole** Nanostructures on Highly Ordered Pyrolytic Graphite Step and Pit Defe	10	3320
ighly Sensitive Microbiosensor for Creatinine Based on the Combination of Inactive	**Polypyrrole** with Polyion Complexes H	2	406
ce Devices Electrochemical Formation of	**Polypyrrole/SiO2** Composite Film and Its Application to Organic Electroluminescen	4	1126
echanical Stress and Gate Oxide Integrity Optimization of	**Polysilicon** Encapsulated Local Oxidation of Silicon. Cavity Dimension Effects on M	5	1653
s Effects of CoSi2 on p+	**Polysilicon** Gates Fabricated by BF2+ Implantation into CoSi/Amorphous Si Bilayer	10	3590
O2-Plasma Passivation Effects on	**Polysilicon** Thin Film Transistors Using Ion Plating Method	1	252
An Investigation of Composite Electrolytes by Mixing Polyethylene Oxide- and	**Polytetramethylene** Glycol-Based Waterborne Polyurethane with the Addition of Li	10	3450
s by Mixing Polyethylene Oxide- and Polytetramethylene Glycol-Based Waterborne	**Polyurethane** with the Addition of LiClO4/Propylene Carbonate An Investiga	10	3450
Self-Organized Formation of Hexagonal	**Pore** Structures in Anodic Alumina	11	3735
ass Electrochemical Determination of the	**Porosity** of Single and Duplex PVD Coatings of Titanium and Titanium Nitride on Br	12	4173
Structural and Optical Characterization of	**Porous** 3C-SiC	7	2241
Growth Kinetics and Morphology of	**Porous** Anodic Alumina Films Formed Using Phosphoric Acid	8	2699
Electrosynthesis of Sodium Hydrosulfite. III.	**Porous** Cathode Materials and Process Model	12	4062
Impedance Studies of the Oxygen Reduction on Thin	**Porous** Coating Rotating Platinum Electrodes	7	2307
Current Distribution at	**Porous** Electrodes-Solid Oxide Electrolyte Interface	9	3130
Fibrous and	**Porous** Microstructure Formation in 6H-SiC by Anodization in HF Solution	7	2456
Equivalent Circuit Approximation to	**Porous** Mixed-Conducting Oxygen Electrodes in Solid-State Cells	1	142
aterial Improved	**Porous** Mixture of Molybdenum Nitride and Tantalum Oxide as a Charge Storage M	4	L61
Aqueous Electrolyte Interface: A Possible Mechanism for Chemiluminescence from	**Porous** Silicon Hole Injection at the Silicon/	4	1232
mperature Silicon-on-Insulator Fabrication Process Using Si MBE on Double-Layer	**Porous** Silicon A Low Te	5	1668
Changes in the Environment of Hydrogen in	**Porous** Silicon with Thermal Annealing	7	2439
f Aqueous and Nonaqueous In Situ and Ex Situ Photoluminescent Emissions from	**Porous** Silicon. Evidence for Surface-Bound Emitters On the Correlation o	9	3284
Irregular Surface and	**Porous** Structure of SiO2 Films Deposited at Low Temperature and Low Pressure	7	2569
Swollen in Water A Study of Capillary	**Porous** Structure and Sorption Properties of Nafion Proton-Exchange Membranes	8	2677
cterization of the Electrocatalyst Heat-Treated Iron(III) Tetramethoxyphenyl	**Porphyrin** Supported on High-Area Carbon as an Electrocatalyst for Oxygen Reduc	10	3493
A Methanol Sensor for	**Portable** Direct Methanol Fuel Cells	11	3783
bstitution Tuning the	**Position** of the Redox Coupies in Materials with NASICON Structure by Anionic Su	5	1518
ead Sulfate Precursor Optimization of the	**Positive** Active Material Capacity in Lead- Acid Cells Through Control of the Basic L	10	3358
Electrochemistry of Chemically Lithiated NaV3O8: A	**Positive** Electrode Material for Use in Rechargeable Lithium-Ion Batteries	2	421
Effects on the	**Positive** Electrode of the Corrosion of AB5 Alloys in Nickel-Metal-Hydride Batteries	2	456
New Concept of Contrast Enhancement of Resist and Its Application to	**Positive-Type** Resist	4	1335
Hole Injection at the Silicon/Aqueous Electrolyte Interface: A	**Possible** Mechanism for Chemiluminescence from Porous Silicon	4	1232
Oxide Wafers The Effects of	**Post** Chemical Mechanical Planarization Buffing on Defect Density of Tungsten and	12	4240
Admittance for Electrode Processes Involving n State Variables Besides Electrode	**Potential** An Investigation of Faradaic	2	517
Theoretical Analysis of Metal Hydride Electrodes. Studies on Equilibrium	**Potential** and Exchange Current Density	12	4082
Ion	**Potential** Diagrams for Electrochromic Devices	12	4212
A Reaction-Plane Model for the Open-Circuit	**Potential** of Copper in Aerated Copper Sulfate Solution	2	590
Electrolytes Comparison of Power Densities and Chemical	**Potential** Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide	1	99
Aqueous	**Potential-pH** Equilibria in Copper-Benzotriazole Systems	3	L42
ducting Glass and Stabilized Zirconia Influence of Humidity on a	**Potentiometric** CO2 Gas Sensor Using a Combined Electrolyte of Sodium Ion Con	9	2981
onductors with Arbitrary Electronic Transport Numbers. Application of Impedance,	**Potentiostatic**, and Galvanostatic Methods to Ag1.92Te Determination of C	6	2179
ons	**Potentiostatic** Oxide Formation on Lead Selenide Single Crystals in Alkaline Soluti	8	2806
Impact of the Operation Mode on Pattern Formation in Electrode Reactions. From	**Potentiostatic** to Galvanostatic Control The	7	2404
mpedance Study on the Electrochemical Lithium Intercalation into Natural Graphite	**Powder** I	1	172
ve Study of the Electrochemical Behavior of Polycrystalline and Nanocrystalline Ru	**Powder** in NaOH Solution Comparati	5	1624
tilayer and Single-Layer Oxide Electrolytes Comparison of	**Power** Densities and Chemical Potential Variation in Solid Oxide Fuel Cells with Mul	1	99
ehavior of Anodic Contact Glow Discharge Electrolysis. The Relationship Between	**Power** Dissipated in Glow Discharges and Nonfaradaic Yields A Study on th	7	2209
eactor	**Power** Measurements for Radio-Frequency Discharges with a Parallel-Plate-Type R	5	1701
rotonic and Native Conduction in Sr-Substituted LaPO4 Studied by Thermoelectric	**Power** Measurements P	10	3313
Fast Fourier Transform? Analysis of Electrochemical Noise by	**Power** Spectral Density Applied to Corrosion Studies. Maximum Entropy Method or	8	2780
e Chemistry, and Performance of Li Electrodes and the Connection to Cycle Life of	**Practical** Batteries The Correlation Between Charge/Discharge Rates and M	5	1421
nce of Residual Point Defect Supersaturation on the Formation of Grown-In Oxide	**Precipitate** Nuclei in CZ-Si Influe	5	L75
nce A Study on the Phase Transformation of Electrochemically	**Precipitated** Nickel Hydroxides Using an Electrochemical Quartz Crystal Microbala	2	507
Quantitative Evaluation of	**Precipitated** Oxygen in Silicon by Infrared Spectroscopy. Still an Open Problem	5	1715
Gettering of Iron to Implantation Induced Cavities and Oxygen	**Precipitates** in Silicon	4	1400
Electrical and Recombination Properties of Copper-Silicide	**Precipitates** in Silicon	11	3889
Analysis of Iron	**Precipitation** in Silicon as a Basis for Gettering Simulations	12	4259
Controlled Anodic Oxidation for High	**Precision** Etch Depth in AlGaAs III-V Semiconductor Structures	3	1076
ve Material Capacity in Lead- Acid Cells Through Control of the Basic Lead Sulfate	**Precursor** Optimization of the Positive Acti	10	3358
echniques Determination of	**Precursor** Sites for Pitting Corrosion of Polycrystalline Titanium by Using Different T	6	2005
r A New Liquid	**Precursor** with Improved Thermal Stability for Chemical Vapor Deposition of Coppe	1	382
14.1% CuIn1-xGaxSe2-Based Photovoltaic Cells from Electrodeposited	**Precursors**	10	3435
, Chemical Vapor Deposited Tantalum Oxide Films from Ta(OC2H5)5 and Oxygen	**Precursors** Ethanol-Addition-Enhanced	9	3247
y of the Chemical Vapor Deposition of Silicon Carbide from Dichlorodimethylsilane	**Precursors** A Kinetic Stud	4	1277
y PtRu Alloy Colloids as	**Precursors** for Fuel Cell Catalysts. A Combined XPS, AFM, HRTEM, and RDE Stud	3	925
ck for O2 Reduction Influence of Nitrogen-Containing	**Precursors** on the Electrocatalytic Activity of Heat-Treated Fe(OH)2 on Carbon Bla	7	2411
Phosphors	**Predicting** and Modeling the Low-Voltage Cathodoluminescent Efficiency of Oxide	9	3165
Proton Diffusion in Nickel Hydroxide.	**Prediction** of Active Material Utilization	1	29
	Prediction of Li Intercalation and Battery Voltages in Layered vs. Cubic LixCoO2	7	2424
ace of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. I. Determination of the	**Predominant** Reaction Process Electrochemical Oxidation in a CH4-H2O Sy	3	920
	Preparation and Electrochemical Characterization of Overlithiated Spinel LiMn2O4	4	1131
Electrolytes for Li-Ion Batteries	**Preparation** and Characterization of Poly(vinyl chloride-co-vinyl acetate)-Based Gel	4	1207
Ultraclean Si/Si Interface Formation by Surface	**Preparation** and Direct Bonding in Ultrahigh Vacuum	5	1645
Plasma Enhanced Chemical Vapor Deposition	**Preparation** of a-SiNx Thin Film with Low Hydrogen Content by Inductively Coupled	2	652
cal Microscopy	**Preparation** of a Gold-Sputtered Optical Fiber as a Microelectrode for Electrochemi	6	2011
position	**Preparation** of Indium Hydroxy Sulfide Inx(OH)ySz Thin Films by Chemical Bath De	8	2775
ristic Features of Size-Selective Photoetching of CdS Nanoparticles as a Means of	**Preparation** of Monodisperse Particles Characte	6	1964
Electrolyte-Based Lithium Cells	**Preparation** of Micron-Sized Li4Ti5O12 and Its Electrochemistry in Polyacrylonitrile	8	2609
ties. II. Effects of Doping Strontium to LaMnO3 on the Electrode Properties	**Preparation** of Perovskite-Type La1-xSrxMnO3 Films by Vapor-Phase Processes a	6	1999
yte Fuel Cells Improved	**Preparation** Process of Very-Low-Platinum-Loading Electrodes for Polymer Electrol	11	3708
Changes in Structure and Cathode Performance with Composition and	**Preparation** Temperature of Lithium Cobalt Nickel Oxide	3	730
A New Synthetic Method to	**Prepare** Spherical Phosphors for Emissive Screen Applications	3	1017
chemical Behavior and Surface Morphologic Changes of Copper Substrates in the	**Presence** of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ EQCM and Phase Measurem	7	2369
Atmospheric Corrosion of Copper in the	**Presence** of Acid Ammonium Sulfate Particles	3	946

		Issue	Page
Steady-State and Transient Behavior of Thick-Film Tin Oxide Sensors in the	**Presence** of Gas Mixtures	5	1772
Copper Deposition in the	**Presence** of Polyethylene Glycol. I. Quartz Crystal Microbalance Study	10	3472
Copper Deposition in the	**Presence** of Polyethylene Glycol. II. Electrochemical Impedance Spectroscopy	10	3477
In Situ Studies of Cu Deposition in the	**Presence** of Quaternary Ammonium Salts	4	1218
Some Aspects of the Atmospheric Corrosion of Copper in the	**Presence** of Sodium Chloride	4	1093
Computational Studies of Lithium Intercalation in Model Graphite in the	**Presence** of Tetrahydrofuran	10	3328
rface and Porous Structure of SiO2 Films Deposited at Low Temperature and Low	**Pressure** Irregular Su	7	2569
pplications Low	**Pressure** Chemically Vapor Deposited WO3 Thin Films for Integrated Gas Sensor A	4	1346
Kinetics of the Formation of Titanium Nitride Layers by Rapid Thermal Low	**Pressure** Chemical Vapor Deposition from TiCl4-NH3-H2	5	1672
ate on the Growth Characteristics of Silicon Oxide Films Deposited by Atmospheric	**Pressure** Chemical Vapor Deposition Using Si(OC2H5)4 and O3 Effects of	8	2847
cterization of High Quality Nitrided Gate Dielectric Films Manufactured in Reduced	**Pressure** Furnace for Ultralarge Scale Integration Complementary Metal Oxide Se	5	1679
Surface Cleaning and Carbonaceous Film Removal Using High	**Pressure**, High Temperature Water, and Water/CO2 Mixtures	1	284
Hydride Without H2 Carrier Gas Very Low	**Pressure** Selective Aluminum Chemical Vapor Deposition Using Dimethylaluminum	12	4327
1.2)0.92 Hydrogen-Storage Alloys Determination of Internal Cell	**Pressures** in Sealed Ni-MH Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni	10	3387
ounding of Print Bands Surface Finishing of High Speed	**Print** Bands. I. A Prototype Tool for Electrochemical Microfinishing and Character R	9	3047
I. A Prototype Tool for Electrochemical Microfinishing and Character Rounding of	**Print** Bands Surface Finishing of High Speed Print Bands	9	3047
Stainless Steel Surface Finishing of High Speed	**Print** Bands. II. An Electrochemical Process for Microfinishing of Hardened Fe-13Cr	9	3052
Characterization of AA2024-T3 by Scanning Kelvin	**Probe** Force Microscopy	7	2285
Corrosion Study of AA2024-T3 by Scanning Kelvin	**Probe** Force Microscopy and In Situ Atomic Force Microscopy Scratching	7	2295
f Surface Carbon Contamination on Phosphated Zinc Surfaces by Scanning Kelvin	**Probe** Measurements Analysis o	3	L39
Modeling the Twin Platinum	**Probe** Scanning Electrode Response	12	4074
Chemistry of a Chromate Conversion Coating on Aluminum Alloy AA2024-T3	**Probed** by Vibrational Spectroscopy	9	3083
valuation of Precipitated Oxygen in Silicon by Infrared Spectroscopy. Still an Open	**Problem** Quantitative E	5	1715
Wear-Contact	**Problems** and Modeling of Chemical Mechanical Polishing	6	2100
Deposition of Silica Films Using Electrochemical	**Procedures**	6	1812
Dopant Effects on Lateral Silicide Growth in Self-Aligned Titanium Silicide	**Process**	10	3585
per. Growth and Selectivity in the Cu(II)-2,2,6,6-tetramethyl-3,5-heptanedionate/H2	**Process** Atomic Layer Epitaxy of Cop	8	2926
nd Y2O3-Stabilized ZrO2 Electrolyte. I. Determination of the Predominant Reaction	**Process** Electrochemical Oxidation in a CH4-H2O System at the Interface of	3	920
Micromachining of Tin Oxide Film by Electrochemical Reduction	**Process**	9	3067
Electrosynthesis of Sodium Hydrosulfite. I. Development of an Online	**Process** Control Monitor	12	4052
A New	**Process** for Depositing Tungsten Nitride Thin Films	2	L21
Improved GaAs Bonding	**Process** for Quasi-Phase-Matched Second Harmonic Generation	1	366
Surface Finishing of High Speed Print Bands. II. An Electrochemical	**Process** for Microfinishing of Hardened Fe-13Cr Stainless Steel	9	3052
The Effect of the Lead Alloy Hardening	**Process** in Electric Vehicle Storage Batteries on Corrosion Resistance	9	3183
Electrosynthesis of Sodium Hydrosulfite. III. Porous Cathode Materials and	**Process** Model	12	4062
An In Situ Electrochemical Quartz Crystal Microbalance Study of the Dissolution	**Process** of a Gold Electrode in Perchloric Acid Solution Containing Chloride Ion	5	1614
s Improved Preparation	**Process** of Very-Low-Platinum-Loading Electrodes for Polymer Electrolyte Fuel Cell	11	3708
Vapor-Phase Epitaxy Reactor Modeling and	**Process** Optimization of ZnSe and ZnS Epitaxial Growth in a Vertical Metallorganic	8	2887
Cu Dissolution from Si(111) into an SC-1	**Process** Solution	4	L60
Field Oxide Thinning Behavior in Local Oxidation of Silicon	**Process** under Enhanced Oxidation Conditions	5	1664
A Low Temperature Silicon-on-Insulator Fabrication	**Process** Using Si MBE on Double-Layer Porous Silicon	5	1668
A New Charge Pumping Model and Characterization of	**Process-Dependent** Traps in Polycrystalline Silicon Thin Film Transistors	8	2883
by Anodic Oxidation, Electro-Fenton, Photoelectro-Fenton, and Peroxi-Coagulation	**Processes** Degradation of 4-Chlorophenol	3	759
dation of Mechanical Strength of Silicon Wafers Caused by Large Scale Integration	**Processes** Experimental Study of the Degra	9	3160
m Growth Rate Enhancement in Anodic and Cathodic Corona-Discharge Oxidation	**Processes** Mechanisms of Fil	8	2944
rties Preparation of Perovskite-Type La1-xSrxMnO3 Films by Vapor-Phase	**Processes** and Their Electrochemical Properties. II. Effects of Doping Strontium to	6	1999
al Microbalance A Study of Lithium Deposition-Dissolution	**Processes** in a Few Selected Electrolyte Solutions by Electrochemical Quartz Cryst	8	2629
Ion Drift	**Processes** in Pyrex-Type Alkali-Borosilicate Glass during Anodic Bonding	5	1755
ation	**Processes** in Ultrathin Buried Oxide Synthesis Stimulated by Low Dose Ion Implant	8	2964
Common Electroanalytical Behavior of Li Intercalation	**Processes** into Graphite and Transition Metal Oxides	9	3024
An Investigation of Faradaic Admittance for Electrode	**Processes** Involving n State Variables Besides Electrode Potential	2	517
Application of Hydrogen Diffusion Anodes in Electrolytic	**Processes** Using Methanol-Water Mixtures	5	1502
ization of Thin SiO2 Films on Silicon Created by Anodic Oxygen Corona Discharge	**Processing** Electrical Character	8	2937
sed Photovoltaic Structure Formed by Electrodeposition and Subsequent Thermal	**Processing** A 10% Cu(In,Ga)Se2 Ba	10	3613
Mathematical Modeling of Soft Baking in Photoresist	**Processing**	12	4256
The Effect of	**Processing** Conditions on Crystal Orientation and Structure in ZnS:Mn Thin Films	1	226
Nitrogen Incorporation in Thin Silicon Oxides in a N2O Plasma. Effects of	**Processing** Conditions	2	662
An Optical Method for Monitoring Metal Contamination during Aqueous	**Processing** of Silicon Wafers	5	1688
Impact of Floating Gate Dopant Concentration and Interpoly Dielectric	**Processing** on Tunnel Dielectric Reliability	4	1351
nium Nitride from Tetraiodotitanium The Effects of	**Processing** Parameters in the Low-Temperature Chemical Vapor Deposition of Tita	2	676
Designing Reduced-Order Models for Rapid Thermal	**Processing** Systems	11	3974
Heat Transfer, Fluid Flow, and Interface Shapes in Zone Melting	**Processing** with Induction Heating	11	3926
Structure of Tetrabasic Lead Sulfate (4PbO.PbSO4). An Intermediate Phase in the	**Production** of Lead-Acid Batteries Crystal	2	528
d Chemical Vapor Deposited Tetraethylorthosilicate Oxide Film on a Boron Implant	**Profile** The Effect of Low-Pressure and Plasma-Enhance	5	1677
Effects of Annealing on Oxygen Depth	**Profiles** and Chemical Etching Rates of Thermally Grown Silicon Oxides	4	1306
l Fluorination of Hydrocarbons	**Profiles** and Performance Curves in a Parallel-Plate Reactor for the Electrochemica	5	1578
the Electrochemical Reduction of the Nitroolefins so Produced Cathodically	**Promoted** Addition of Nitromethane to Aldehydes and Exploratory Studies of the M	8	2768
surements of an IrO2 Film Deposited on YSZ Subjected to In Situ Electrochemical	**Promotion** Work Function and Catalytic Activity Mea	3	905
Electrochemical	**Promotion** of Ethylene Oxidation on Pt Catalyst Films Deposited on CeO2	4	1202
Oxidation Electrochemical	**Promotion** of Pt Catalyst Electrodes Deposited on Na3Zr2Si2PO12 during Ethylene	5	1469
Electrochemical Study on the Cationic	**Promotion** of the Catalytic SO2 Oxidation in Pyrosulfate Melts	11	3721
Perforated Covers for	**Propagating** Pits	4	1101
Optimized Diode Analysis of Electrical Silicon Substrate	**Properties**	6	2107
trochemical Properties. II. Effects of Doping Strontium to LaMnO3 on the Electrode	**Properties** Preparation of Perovskite-Type La1-xSrxMnO3 Films by Vapor-P	6	1999
rate Buffer. Formation of a Deposit Layer and Its Influence on the Semiconducting	**Properties** Iron Passivity in Bo	2	609
Effect of Aging on Yttria-Stabilized Zirconia. I. A Study of Its Electrochemical	**Properties**	5	1527
mposites Thermogravimetric/Mass and Infrared Spectroscopic	**Properties** and Humidity Sensitivity of Polyaniline Derivatives/Polyvinyl Alcohol Co	10	3351
Six Film Thin-Film	**Properties** and Barrier Effectiveness of Chemically Vapor Deposited Amorphous W	12	4206
Composite Polymer Electrolytes with Improved Lithium Metal Electrode Interfacial	**Properties**. I. Electrochemical Properties of Dry PEO-LiX System	12	4126
-Type La1-xSrxMnO3 Films by Vapor-Phase Processes and Their Electrochemical	**Properties**. II. Effects of Doping Strontium to LaMnO3 on the Electrode Properties	6	1999
Composite Polymer Electrolytes with Improved Lithium Metal Electrode Interfacial	**Properties**. II. Application in Rechargeable Batteries	12	4133
Effect of TiN Microstructure on Diffusion Barrier	**Properties** in Cu Metallization	6	2164
Gradient Control of Magnetic	**Properties** in Electroless-Deposited CoNiP Thin Films	1	134
Study of Ion-Transport	**Properties** in Polymer Electrolytes Using a Novel Electrochemical Method	3	744
ed Chemical Vapor Deposition Relationship Between Structural and Optical	**Properties** in Polycrystalline Silicon Films Prepared at Low Temperature by Plasma	10	3615
olytes Sensing	**Properties** of an Oxygen Sensor Using BaCe0.8Gd0.2O3-alpha Ceramics as Electr	5	1744
	Properties of a-SiOx:H Thin Films Deposited from Hydrogen Silsesquioxane Resins	8	2861
de Active Material in Rechargeable Lithium-Ion Batteries Charge-Discharge	**Properties** of Composite of Synthetic Graphite and Poly(3-n-hexylthiophene) as an	5	1415
Charge-Discharge	**Properties** of Composite Films of Polyaniline and Crystalline V2O5 Particles	8	2707
Electrical and Recombination	**Properties** of Copper-Silicide Precipitates in Silicon	11	3889
tes with Improved Lithium Metal Electrode Interfacial Properties. I. Electrochemical	**Properties** of Dry PEO-LiX System Composite Polymer Electroly	12	4126
atteries Electrochemical	**Properties** of GeS2-Based Glass-Polymer Composite Electrolytes for Lithium-Ion B	6	1949
Low Temperature Synthesis and Electrode	**Properties** of Li4Mn5O12	4	L53
Synthesis and	**Properties** of Mixed Lanthanide Chromite Perovskites	12	4282
A Study of Capillary Porous Structure and Sorption	**Properties** of Nafion Proton-Exchange Membranes Swollen in Water	8	2677
Pulsed Electrodeposition Synthesis and Hydrogen Absorption	**Properties** of Nanostructured Palladium-Iron Alloy Films	10	3339
Electrical Characterization of the Semiconducting	**Properties** of n-TiO2	10	3550
Electrochemical	**Properties** of Over-stoichiometric ZrMn1-xVxNi1.4+y Alloys with C15 Laves Phase	1	93

		Issue	Page
Thermodynamic	**Properties** of Pd-Li Alloys	3	785
Acid-Base	**Properties** of Passive Films on Aluminum. I. A Photoelectrochemical Study	3	823
and X-Ray Absorption Near Edge Structure Study Acid-Base	**Properties** of Passive Films on Aluminum. II. An X-Ray Photoelectron Spectroscopy	3	829
	Properties of Polyphenylquinoxaline Acid Complex as an Electrode Material	4	1193
The Effects of Dopants and A:B Site Nonstoichiometry on	**Properties** of Perovskite-Type Proton Conductors	5	1780
ements Semiconducting	**Properties** of Passive Films Formed on Stainless Steels. Influence of the Alloying El	11	3821
ased Thin Films Dielectric	**Properties** of Radio Frequency Magnetron Sputter Deposited Zirconium Titanate-B	1	358
Comparison of the Semiconductive	**Properties** of Sputter-Deposited Iron Oxides with the Passive Film on Iron	2	378
puttering Temperature Dependence of the Electrical	**Properties** of SrBi2Ta2O9 Thin Films Deposited by Radio-Frequency Magnetron S	4	1330
Experimental Methods for Investigating the Defect	**Properties** of SiO2 in Metal Oxide Semiconductor Transistors	10	3638
Barrier	**Properties** of Very Thin Ta and TaN Layers Against Copper Diffusion	7	2538
Electric	**Properties** of [(ZrO2)0.8(CeO2)0.2]0.9(CaO)0.1 Solid Solution	7	2552
The Effect of Electrolyte	**Properties** on the Mechanism of Crevice Corrosion in Pure Iron	6	1862
O)n-NaTFSI Transport	**Property** and Raman Spectroscopic Studies of the Polymer Electrolyte System P(E	5	1586
Valent Layers Diode-Like	**Property** of Prussian Blue Films Containing Concentration Gradients in Serial Mixed	11	3788
Role of Electronic	**Property** of Pt and Pt Alloys on Electrocatalytic Reduction of Oxygen	12	4185
Thin Films as Oxygen Reduction Electrocatalysts. II. Electrochemical Stability and	**Proposed** Mechanism Sputtered Cobalt-Carbon-Nitrogen	10	3513
Time-Dependent Electrochromism of Nanocrystalline TiO2 Films in	**Propylene** Carbonate Solution of LiClO4	6	1982
The Electrochromic Behavior of Indium Tin Oxide in	**Propylene** Carbonate Solutions	7	2225
Passivity and Breakdown of Carbon Steel in Organic Solvent Mixtures of	**Propylene** Carbonate and Dimethoxyethane	7	2396
lkanethiol Monolayer	**Protection** of Copper Corrosion by an Ultrathin Two-Dimensional Polymer Film of A	6	1856
n Coating Monitored with Raman Spectroscopy Corrosion	**Protection** of Untreated AA-2024-T3 in Chloride Solution by a Chromate Conversio	7	2258
ith Chlorosilanes and Alkanediol	**Protective** Films on Copper by Multistep Modification of an Alkanethiol Monolayer w	8	2786
Cs+ and H+ Cations	**Proton** and Methanol Transport in Poly(perfluorosulfonate) Membranes Containing	11	3798
onomer Membrane	**Proton** Conductivity in Nafion 117 and in a Novel Bis[(perfluoroalkyl)sulfonyl]imide I	1	107
ffects of Dopants and A:B Site Nonstoichiometry on Properties of Perovskite-Type	**Proton** Conductors The E	5	1780
	Proton Diffusion in Nickel Hydroxide. Prediction of Active Material Utilization	1	29
An Along-the-Channel Model for	**Proton** Exchange Membrane Fuel Cells	4	1149
al Theory of Electro-osmotic Effect and Water Management in Polymer Electrolyte	**Proton-Conducting** Membranes Phenomenologic	8	2684
A Study of Capillary Porous Structure and Sorption Properties of Nafion	**Proton-Exchange** Membranes Swollen in Water	8	2677
c Power Measurements	**Protonic** and Native Conduction in Sr-Substituted LaPO4 Studied by Thermoelectri	10	3313
Bands Surface Finishing of High Speed Print Bands. I. A	**Prototype** Tool for Electrochemical Microfinishing and Character Rounding of Print	9	3047
nd Electrochemical Characterization of Boron-Doped Diamond Films from Different	**Provenances** Structural, Spectroscopic, a	5	L85
Electrochemical Deposition of	**Prussian** Blue from a Single Ferricyanide Solution	7	2231
ers Diode-Like Property of	**Prussian** Blue Films Containing Concentration Gradients in Serial Mixed Valent Lay	11	3788
on Reaction Electroactive Materials Containing Macrocyclic	**Pseudo-Crown** Ether Cavities Electroformed from a Solid-State Electropolymerizati	12	4110
Role of Electronic Property of Pt and	**Pt** Alloys on Electrocatalytic Reduction of Oxygen	12	4185
Role of Electronic Property of	**Pt** and Pt Alloys on Electrocatalytic Reduction of Oxygen	12	4185
Electrochemical Promotion of Ethylene Oxidation on	**Pt** Catalyst Films Deposited on CeO2	4	1202
Electrochemical Promotion of	**Pt** Catalyst Electrodes Deposited on Na3Zr2Si2PO12 during Ethylene Oxidation	5	1469
Electrochemical Study of NO Conversion from Fe(II)-EDTA-NO Complex on	**Pt** Electrodes	1	53
cess Electrochemical Oxidation in a CH4-H2O System at the Interface of a	**Pt** Electrode and Y2O3-Stabilized ZrO2 Electrolyte. I. Determination of the Predomi	3	920
rallel Electrochemical Oxidation in a CH4-H2O System at the Interface of a Cells	**Pt** Electrode and Y2O3-Stabilized ZrO2 Electrolyte. II. The Rates of Electrochemical	9	3117
	Pt Inclusion Compounds as Oxygen Reduction Catalysts in Polymer-Electrolyte Fuel	9	2965
s Dispersed in High-Area Carbon in Aqueous Electrolytes In Situ Real-Time	**Pt** LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide Adsorbed on Platinum	1	80
O2 Reduction on an Ink-Type Rotating Disk Electrode Using	**Pt** Supported on High-Area Carbons	11	3713
Effect of O2 Addition on the Deposition of	**Pt** Thin Films by Metallorganic Chemical Vapor Deposition	3	1066
Surface Optimized for Oxidation of Methanol Deposition of Ru Adatoms on	**Pt** Using Organometallic Chemistry. Electro-oxidation of Methanol, Ethanol, 1,2-Eth	12	4182
Analyses of Self-Humidification and Suppression of Gas Crossover in	**Pt-Dispersed** Polymer Electrolyte Membranes for Fuel Cells	4	1137
istry. Electro-oxidation of Methanol, Ethanol, 1,2-Ethanediol, and D-Glucose over a	**Pt-Ruads** Surface Optimized for Oxidation of Methanol Deposition of Ru Ad	12	4182
RTEM, and RDE Study	**PtRu** Alloy Colloids as Precursors for Fuel Cell Catalysts. A Combined XPS, AFM, H	3	925
Modeling the Galvanostatic	**Pulse** and Pulse Reverse Plating of Nickel-Iron Alloys on a Rotating Disk Electrode	6	2033
Lowering of Leakage Current Density of (Ba,Sr)TiO3 Thin Films by	**Pulse** Injection Deposition	11	3884
A Theoretical Analysis of the Effect of Inert Blocking Agent on the Galvanostatic	**Pulse** Plating	11	3851
Modeling the Galvanostatic Pulse and	**Pulse** Reverse Plating of Nickel-Iron Alloys on a Rotating Disk Electrode	6	2033
	Pulse Reverse Copper Electrodeposition in High Aspect Ratio Trenches and Vias	9	3070
Comparison of Oxidation Rates for a-Si1-xCx:H Films Deposited from	**Pulsed** and Continuous Wave RF Plasmas	9	3271
escent Flat Panel Display Applications In Situ	**Pulsed** Deposition Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electrolumin	12	4271
uctured Palladium-Iron Alloy Films	**Pulsed** Electrodeposition Synthesis and Hydrogen Absorption Properties of Nanostr	10	3339
Cyclic Voltammetry of	**Pulsed** Laser Deposited LixMn2O4 Thin Films	9	2975
e Silicon Thin Film Transistors A New Charge	**Pumping** Model and Characterization of Process-Dependent Traps in Polycrystallin	8	2883
The Effect of Electrolyte Properties on the Mechanism of Crevice Corrosion in	**Pure** Iron	6	1862
Highly	**Purified** Silane Gas for Advanced Silicon Semiconductor Devices	10	3560
Electrochemical Determination of the Porosity of Single and Duplex	**PVD** Coatings of Titanium and Titanium Nitride on Brass	12	4173
Ion Drift Processes in	**Pyrex-Type** Alkali-Borosilicate Glass during Anodic Bonding	5	1755
Template Electropolymerization of Polypyrrole Nanostructures on Highly Ordered	**Pyrolytic** Graphite Step and Pit Defects	10	3320
Electrochemical Studies of Carbon Films from	**Pyrolyzed** Photoresist	7	2314
Electrochemical Study on the Cationic Promotion of the Catalytic SO2 Oxidation in	**Pyrosulfate** Melts	11	3721
Modeling of Growth Morphology of Underpotential Electropolymerization of	**Pyrrole** on Graphite	1	179

— Q —

Sublimation Studies of SiC by Using a	**Quadrupole** Mass Spectrometer	10	3556
Impact of High-Temperature Dry Local Oxidation on Gate Oxide	**Quality**	7	2595
er Surface Characterization of Crystal	**Quality** by Crystal Originated Particle Delineation and the Impact on the Silicon Waf	1	275
ementary Metal Oxide Semiconductor Applications Characterization of High	**Quality** Nitrided Gate Dielectric Films Manufactured in Reduced Pressure Furnace f	5	1679
haracteristics and Effects of gamma-NiOOH on Cell Performance and a Method to	**Quantify** It in Nickel Electrodes C	1	116
Still an Open Problem	**Quantitative** Evaluation of Precipitated Oxygen in Silicon by Infrared Spectroscopy.	5	1715
n Calculation of Gas Spectra for	**Quantitative** Fourier Transform Infrared Spectroscopy of Chemical Vapor Depositio	9	3212
Surface States and Photovoltaic Effects in CdSe	**Quantum** Dot Films	5	1748
Effect of Current Distribution on	**Quartz** Crystal Microbalance Measurements	2	492
ation of Electrochemically Precipitated Nickel Hydroxides Using an Electrochemical	**Quartz** Crystal Microbalance A Study on the Phase Transform	2	507
osition Confocal Laser Scanning Microscopy, Electrochemistry, and	**Quartz** Crystal Microbalance Studies of Leveling Effects of Thiourea on Copper Dep	3	957
eation Sites Electrochemical	**Quartz** Crystal Microbalance Studies of Polypyrrole Growth on Self-Assembled Nucl	5	1483
Perchloric Acid Solution Containing Chloride Ion An In Situ Electrochemical	**Quartz** Crystal Microbalance Study of the Dissolution Process of a Gold Electrode in	5	1614
Modification of the Lithium Metal Surface by Nonionic Polyether Surfactants:	**Quartz** Crystal Microbalance Studies	7	2340
caling	**Quartz** Crystal Microbalance Investigation of Electrochemical Calcium Carbonate S	7	2386
-Dissolution Processes in a Few Selected Electrolyte Solutions by Electrochemical	**Quartz** Crystal Microbalance A Study of Lithium Deposition	8	2629
ous Perchloric Acid Solutions Electrochemical	**Quartz** Crystal Microbalance Studies of Poly(ortho-toluidine) Films Exposed to Aque	8	2640
Copper Deposition in the Presence of Polyethylene Glycol. I.	**Quartz** Crystal Microbalance Study	10	3472
Improved GaAs Bonding Process for	**Quasi-Phase-Matched** Second Harmonic Generation	1	366
Determination of the Trap Density in Amorphous Silicon by	**Quasi-static** Capacitance-Voltage Measurements	5	1786
In Situ Studies of Cu Deposition in the Presence of	**Quaternary** Ammonium Salts	4	1218
Enhanced CO and CO2 Gas Sensitivity of the CuO/ZnO Heterocontact Made by	**Quenched** CuO Ceramics	2	632

— R —

The Impact of Graphite Furnace Parts on	**Radial** Impurity Distribution in Czochralski-Grown Single-Crystal Silicon	2	621

		Issue	Page
Amorphous and Crystalline GaAs with Brilliant X-Ray Irradiation Using Synchrotron	**Radiation** Inner-Shell Electron Excitation Effect on the Structural Change in	9	3063
Interface State Capture Cross Section Measurements on Vacuum Annealed and	**Radiation** Damaged Si:SiO2 Surfaces	2	683
Behavior of Raipore	**Radiation-Grafted** Polymer Membranes in H2/O2 Fuel Cells	3	780
s Dielectric Properties of	**Radio** Frequency Magnetron Sputter Deposited Zirconium Titanate-Based Thin Film	1	358
Power Measurements for	**Radio-Frequency** Discharges with a Parallel-Plate-Type Reactor	5	1701
A Two-Dimensional Model of Chemical Vapor Infiltration with	**Radio-Frequency** Heating. II. Strategies to Achieve Complete Densification	10	3569
Thin Films of Amorphous Germanium-Tin Alloys Prepared by	**Radio-Frequency** Magnetron Sputtering	4	1303
re Dependence of the Electrical Properties of SrBi2Ta2O9 Thin Films Deposited by	**Radio-Frequency** Magnetron Sputtering Temperatu	4	1330
gen Flows	**Radio-Frequency** Reactively Sputtered VOx Thin Films Deposited at Different Oxy	2	706
ochromic NiOx Films. A Study of Microstructure, Morphology, and Stoichiometry of	**Radio-Frequency** Sputtered Films Toward Efficient Electr	1	235
Behavior of	**Raipore** Radiation-Grafted Polymer Membranes in H2/O2 Fuel Cells	3	780
Ion Association and Solvation Studies of LiClO4/Ethylene Carbonate Electrolyte by	**Raman** and Infrared Spectroscopy	10	3346
In Situ	**Raman** Spectroscopy of LixV2O5 in a Lithium Rechargeable Battery	3	847
Transport Property and	**Raman** Spectroscopic Studies of the Polymer Electrolyte System P(EO)n-NaTFSI	5	1586
A-2024-T3 in Chloride Solution by a Chromate Conversion Coating Monitored with	**Raman** Spectroscopy Corrosion Protection of Untreated A	7	2258
	Raman Spectroelectrochemistry of a Lithium/Polymer Electrolyte Symmetric Cell	9	3034
calation In Situ	**Raman** Studies of Graphite Surface Structures during Lithium Electrochemical Inter	3	765
A	**Raman** Study of Etching Silicon in Aqueous Tetramethylammonium Hydroxide	11	4040
f Capacitance in Hemispherical Grain Polycrystalline Silicon for Advanced Dynamic	**Random** Access Memory Application Optical Monitoring o	11	3935
Transformation of Colored	**Random** Noise by Kronig-Kramers Transforms	2	L20
Films A Study of	**Rapid** Photothermal Annealing of Sputtered Lead Lanthanum Zirconia Titanate Thin	12	4317
Kinetics of the Formation of Titanium Nitride Layers by	**Rapid** Thermal Low Pressure Chemical Vapor Deposition from TiCl4-NH3-H2	5	1672
Designing Reduced-Order Models for	**Rapid** Thermal Processing Systems	11	3974
Reduction of Electron-Beam Induced Degradation by	**Rare** Earth Doping in Y3(Al,Ga)5O12:Tb Phosphors	1	270
Sealing of Anodized Aluminum Alloys with	**Rare** Earth Metal Salt Solutions	8	2792
Effect of Microstructure and Composition on Ionic Conductivity of	**Rare-Earth** Oxide-Doped Ceria	2	638
Discharge	**Rate** Capability of the LiCoO2 Electrode	2	482
Mechanisms of Film Growth	**Rate** Enhancement in Anodic and Cathodic Corona-Discharge Oxidation Processes	8	2944
Determination of the Diffusion Coefficient and Phase-Transfer	**Rate** Parameter in LaNi5 and MmNi3.6Co0.8Mn0.4Al0.3 Using Microelectrodes	11	3740
ycle Life of Practical Batteries The Correlation Between Charge/Discharge	**Rates** and Morphology, Surface Chemistry, and Performance of Li Electrodes and t	5	1421
by Two-Wavelength Holographic Interferometry Ionic Mass-Transfer	**Rates** Associated with Natural Convection along a Plane Vertical Anode Measured	11	3814
mas Comparison of Oxidation	**Rates** for a-Si1-xCx:H Films Deposited from Pulsed and Continuous Wave RF Plas	9	3271
tem at the Interface of a Pt Electrode and Y2O3-Stabilized ZrO2 Electrolyte. II. The	**Rates** of Electrochemical Reactions Taking Place in Parallel Electrochemical	9	3117
Effects of Annealing on Oxygen Depth Profiles and Chemical Etching	**Rates** of Thermally Grown Silicon Oxides	4	1306
Pulse Reverse Copper Electrodeposition in High Aspect	**Ratio** Trenches and Vias	9	3070
e of Novel Hydrofluorocarbon and Iodofluorocarbon Chemistries for a High Aspect	**Ratio** Via Etch in a High Density Plasma Etch Tool Us	12	4305
olloids as Precursors for Fuel Cell Catalysts. A Combined XPS, AFM, HRTEM, and	**RDE** Study PtRu Alloy C	3	925
eudo-Crown Ether Cavities Electroformed from a Solid-State Electropolymerization	**Reaction** Electroactive Materials Containing Macrocyclic Ps	12	4110
s of LiMnO2 with alpha-NaMnO2-Type Structure by a Mixed-Alkaline Hydrothermal	**Reaction** Synthesi	4	L49
amido)titanium Effect of the Gas-Phase	**Reaction** in Metallorganic Chemical Vapor Deposition of TiN from Tetrakis(dimethyl	7	2453
Coefficient Solid-State	**Reaction** Kinetics of LaCrO3 from the Oxides and Determination of La3+ Diffusion	6	2090
Toward a Unified	**Reaction** Mechanism for Chemical Vapor Deposition of Copper	1	347
	Reaction Mechanism for the Thermal Decomposition of BCl3/H2 Gas Mixtures	9	3203
The	**Reaction** of Clean Li Surfaces with Small Molecules in Ultrahigh Vacuum. II. Water	1	159
In Situ Mossbauer Effect Studies of the Electrochemical	**Reaction** of Lithium with Mechanically Alloyed Sn2Fe	12	4195
Hydrogen Exchange	**Reaction** on Hydrogen-Terminated (100) Si Surface during Storage in Water	2	659
Study of the Hydrogen Evolution	**Reaction** on Ni-Mo-P Electrodes in Alkaline Solutions	7	2219
Temperature Dependence of the Oxygen Evolution	**Reaction** on the Pb/PbO2 Electrode	1	70
lectrodeposited Ti2O3-Matrix Composites. II. Electrocatalysis of Oxygen Evolution	**Reaction** on Ti2O3/Co3O4 Composites E	2	555
ectrode and Y2O3-Stabilized ZrO2 Electrolyte. I. Determination of the Predominant	**Reaction** Process Electrochemical Oxidation in a CH4-H2O System at the In	3	920
Model of Cathode	**Reaction** Resistance in Molten Carbonate Fuel Cells	5	1511
Sulfate Solution A	**Reaction-Plane** Model for the Open-Circuit Potential of Copper in Aerated Copper	2	590
sorption Spectroscopic Study of Electrodeposited Nickel Oxide Films during Redox	**Reactions** In Situ X-Ray Ab	4	1121
ocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Film Electrodes during Water Splitting	**Reactions** Stability and Photoresponse of Nan	1	89
The Role of Gas-Phase	**Reactions** during Chemical Vapor Deposition of Copper from (hfac)Cu(tmvs)	12	4226
The Impact of the Operation Mode on Pattern Formation in Electrode	**Reactions**. From Potentiostatic to Galvanostatic Control	7	2404
Modeling Side	**Reactions** in Composite LiyMn2O4 Electrodes	3	990
Capacity Fade Mechanisms and Side	**Reactions** in Lithium-Ion Batteries	10	3647
Chemical	**Reactions** in Plasma-Assisted Chemical Vapor Deposition of Titanium	7	2558
Thermodynamics and Kinetics of Gas-Phase	**Reactions** in the Ti-Cl-H System	6	2167
Tribochemical	**Reactions** of Silicon: An In Situ Infrared Spectroscopy Characterization	7	2465
t Electrode and Y2O3-Stabilized ZrO2 Electrolyte. II. The Rates of Electrochemical	**Reactions** Taking Place in Parallel Electrochemical Oxidation in a CH4-H2O	9	3117
	Reactivation of Passivated Iron Electrodes in a Magnetic Field	7	2214
Surface Roughness of	**Reactive** Ion Etched 4H-SiC in SF6/O2 and CHF3/H2/O2 Plasmas	4	L58
	Reactive Ion Etching of Silicon Containing Polynorbornenes	4	1257
Control of Ion Energy in a Capacitively Coupled	**Reactive** Ion Etcher	12	4247
High Temperature	**Reactive** Ion Etching of Indium-Tin Oxide with HBr and CH4 Mixtures	12	4313
Radio-Frequency	**Reactively** Sputtered VOx Thin Films Deposited at Different Oxygen Flows	2	706
Passivation of Cu by Sputter-Deposited Ta and	**Reactively** Sputter-Deposited Ta-Nitride Layers	9	3170
Sputtered Cr and	**Reactively** Sputtered CrNx Serving as Barrier Layers Against Copper Diffusion	12	4290
s from LiMn2O4 in Aqueous Acidic Media. Mechanisms of Phase Transformations,	**Reactivity**, and Effect of Bi Species Synthesis of MnO2 Phase	10	3392
cal Vapor Deposition	**Reactivity** of Alkylsilanes and Alkylcarbosilanes in Atomic Hydrogen-Induced Chemi	3	1060
Differential Scanning Calorimetry Study of the	**Reactivity** of Carbon Anodes in Plastic Li-Ion Batteries	2	472
Steady-State Modeling of a Parallel-Plate Electrochemical Fluorination	**Reactor**	10	3521
Power Measurements for Radio-Frequency Discharges with a Parallel-Plate-Type	**Reactor**	5	1701
Kolbe Electrolysis of Acetic Acid in a Polymer Electrolyte Membrane	**Reactor**	11	3728
of ZnSe and ZnS Epitaxial Growth in a Vertical Metallorganic Vapor-Phase Epitaxy	**Reactor** Modeling and Process Optimization	8	2887
Profiles and Performance Curves in a Parallel-Plate	**Reactor** for the Electrochemical Fluorination of Hydrocarbons	5	1578
Design of Injection Feed Multiwafer Low-Pressure Chemical Vapor Deposition	**Reactors**	7	2494
m Particles Dispersed in High-Area Carbon in Aqueous Electrolytes In Situ	**Real-Time** Pt LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide Adsorbed o	1	80
chnology The	**Realization** of Silicon-on-Insulator Utilizing Trench-before-Bond and Polish Stop Te	5	1738
naqueous Solutions The Synthesis of a New Family of Boron-Based Anion	**Receptors** and the Study of Their Effect on Ion Pair Dissociation and Conductivity o	8	2813
In Situ Raman Spectroscopy of LixV2O5 in a Lithium	**Rechargeable** Battery	3	847
Electrochemical Synthesis of Polyindole and Its Evaluation for	**Rechargeable** Battery Applications	3	999
The Li4Ti5O12//PAN Electrolyte//LiMn2O4	**Rechargeable** Battery with Passivation-Free Electrodes	8	2615
Alloys Determination of Internal Cell Pressures in Sealed Ni-MH	**Rechargeable** Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydrogen-Storage	10	3387
Electronic Network Modeling of	**Rechargeable** Batteries. I. The Nickel and Cadmium Electrodes	11	3764
Electronic Network Modeling of	**Rechargeable** Batteries. II. The NiCd System	11	3774
lytes with Improved Lithium Metal Electrode Interfacial Properties. II. Application in	**Rechargeable** Batteries Composite Polymer Electro	12	4133
nsions of Vapor-Grown Carbon Fiber for Use as Negative Electrodes in Lithium-Ion	**Rechargeable** Cells Optimization of the Dime	1	210
A 400 mAh/g Aerogel-like V2O5 Cathode for	**Rechargeable** Lithium Batteries	5	L73
chemistry of Chemically Lithiated NaV3O8: A Positive Electrode Material for Use in	**Rechargeable** Lithium-Ion Batteries Electro	2	421
of Synthetic Graphite and Poly(3-n-hexylthiophene) as an Anode Active Material in	**Rechargeable** Lithium-Ion Batteries Charge-Discharge Properties of Compo	5	1415
er Electrolytes Based on Acrylonitrile-Methyl Methacrylate-Styrene Terpolymers for	**Rechargeable** Lithium-Polymer Batteries Polym	6	1958
Low-Temperature Synthesized LiV3O8 as a Cathode Material for	**Rechargeable** Lithium Batteries	9	3057
An Advanced Tool for the Selection of Electrolyte Components for	**Rechargeable** Lithium Batteries	10	3482
	Recombination Centers Created by Ar+-Ion Implantation into SIMOX Substrates	5	1795
Effect of Surface Iron on Photoconductivity Carrier	**Recombination** Lifetime of p-Type Silicon	5	1724

		Issue	Page
Temperature Dependence of Carrier	**Recombination** Lifetime in Si Wafers	9	3285
yl Violet and Thionine Decrease of	**Recombination** Losses in Bicomponent WO3/TiO2 Films Photosensitized with Cres	11	3981
Electrical and	**Recombination** Properties of Copper-Silicide Precipitates in Silicon	11	3889
pO2-Dependent Nonohmic Current-Voltage Characteristics and Current-Induced	**Redox** Behavior of Junctioned SrTiO3	4	1165
Tuning the Position of the	**Redox** Couples in Materials with NASICON Structure by Anionic Substitution	5	1518
Ray Absorption Spectroscopic Study of Electrodeposited Nickel Oxide Films during	**Redox** Reactions In Situ X-	4	1121
Characterization of High Quality Nitrided Gate Dielectric Films Manufactured in	**Reduced** Pressure Furnace for Ultralarge Scale Integration Complementary Metal	5	1679
Designing	**Reduced-Order** Models for Rapid Thermal Processing Systems	11	3974
Current Change Method of	**Reducing** Gas Sensing Using ZnO Varistors	8	2920
Chloroethylene Carbonate, a Solvent for Lithium-Ion Cells, Evolving CO2 during	**Reduction**	2	L27
rs on the Electrocatalytic Activity of Heat-Treated Fe(OH)2 on Carbon Black for O2	**Reduction** Influence of Nitrogen-Containing Precurso	7	2411
Impedance Characteristics of Oxygen	**Reduction** at a Platinum Electrode in Alkaline Electrolyte	3	938
ry-Ion Mass Spectrometry Active Sites Imaging for Oxygen	**Reduction** at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia Interface by Seconda	9	3196
Pt Inclusion Compounds as Oxygen	**Reduction** Catalysts in Polymer-Electrolyte Fuel Cells	9	2985
Methanol Tolerant Oxygen	**Reduction** Catalysts Based on Transition Metal Sulfides	10	3463
n Complexes Oxygen	**Reduction** Characteristics of Heat-Treated Catalysts Based on Cobalt-Porphyrin Io	3	815
Sputtered Cobalt-Carbon-Nitrogen Thin Films as Oxygen	**Reduction** Electrocatalysts. I. Physical and Electrochemical Characterization	10	3507
Sputtered Cobalt-Carbon-Nitrogen Thin Films as Oxygen	**Reduction** Electrocatalysts. II. Electrochemical Stability and Proposed Mechanism	10	3513
henyl Porphyrin Supported on High-Area Carbon as an Electrocatalyst for Oxygen	**Reduction**. I. Characterization of the Electrocatalyst Heat-Treated Iron(III) T	10	3493
mical Behavior of Highly Conductive Boron-Doped Diamond Electrodes for Oxygen	**Reduction** in Alkaline Solution Electroche	6	1870
	Reduction in Contact Resistance with In Situ O2 Plasma Treatment	7	2480
Anomalous Current Rise and Electrochemical	**Reduction** in Fe2O3-TiO2 Ceramics	5	1592
Electrochemical	**Reduction** of 3-Chloro-2,4-pentanedione at Carbon Cathodes in Acetonitrile	2	398
Photoelectrochemical	**Reduction** of CO2 at High Current Densities at p-InP Electrodes	5	L82
Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes. III. Simultaneous	**Reduction** of Carbon Dioxide and Nitrite Ions with Various Metal Catalysts	2	596
In Situ Investigation of the Electrochemical	**Reduction** of Carbonate Electrolyte Solutions at Graphite Electrodes	4	1081
Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes. IV. Simultaneous	**Reduction** of Carbon Dioxide and Nitrate Ions with Various Metal Catalysts	7	2348
athode in Acetonitrile Catalytic	**Reduction** of Diphenyl Disulfide by Cobalt(I) Salen Electrogenerated at a Carbon C	10	3374
a)5O12:Tb Phosphors	**Reduction** of Electron-Beam Induced Degradation by Rare Earth Doping in Y3(Al,G	1	270
Electron Spin Resonance Study of the Electrochemical	**Reduction** of Electrolyte Solutions for Lithium Secondary Batteries	11	3757
Nonlinear Phenomena during the	**Reduction** of Hydrogen Peroxide in Alkaline Solution Involving Mass Transfer	11	3857
Electrodeposition of Amorphous Fe2O3 Films by	**Reduction** of Iron Perchlorate in Acetonitrile	2	385
Oxidation and	**Reduction** of Liquid SnPb (60/40) under Ambient and Vacuum Conditions	6	2138
asing Heat-Treatment Temperature On the	**Reduction** of Lithium Insertion Capacity in Hard-Carbon Anode Materials with Incre	7	2252
Role of Electronic Property of Pt and Pt Alloys on Electrocatalytic	**Reduction** of Oxygen	12	4185
om Sucrose for Li-Ion Batteries	**Reduction** of the Irreversible Capacity in Hard-Carbon Anode Materials Prepared fr	6	1977
ne to Aldehydes and Exploratory Studies of the Mechanism of the Electrochemical	**Reduction** of the Nitroolefins so Produced Cathodically Promoted Addition o	8	2768
a Carbons O2	**Reduction** on an Ink-Type Rotating Disk Electrode Using Pt Supported on High-Are	11	3713
ctor Films Mechanistic Studies of CO2	**Reduction** on a Mediated Electrode with Conducting Polymer and Inorganic Condu	11	3801
Impedance Studies of the Oxygen	**Reduction** on Thin Porous Coating Rotating Platinum Electrodes	7	2307
Micromachining of Tin Oxide Film by Electrochemical	**Reduction** Process	9	3067
Geometric Requirements of Solid Electrolyte Cells with a	**Reference** Electrode	4	1184
Chemical Etching of Ta2O5 in NaOH-Based Solutions for Fabricating Antiresonant	**Reflecting** Optical Waveguides High-Temperature Wet	3	1020
easurements of Epitaxial Layers of Double Epitaxial Silicon Wafers by Far-Infrared	**Reflection** Thickness M	5	1720
and Palladium Surfaces In Situ Infrared	**Reflection** Absorption Spectroscopy Studies of Sulfuric Acid Formation on Platinum	2	487
ct of pH and Counterion A Neutron	**Reflectivity** Study of[Os(bipy)2(PVP)10Cl]+ Polymer Film Modified Electrodes: Effe	5	1454
Gradual Internal Methane	**Reforming** in Intermediate-Temperature Solid-Oxide Fuel Cells	10	3487
Optimization of SiON Film Compositions for Encapsulation of	**Refractory** Metal Gate GaAs Metal-Semiconductor Field Effect Transistor	1	323
nsteady Galvanostatic Electrodeposition in the Two-Dimensional Diffusion-Limited	**Regime** Linear Stability Analysis of U	6	2016
cterization of the p-Si/NH4F Interface during Dissolution in the Current Oscillations	**Regime** In Situ Chara	2	498
ygen Exchange and Transport in Air-Perovskite-Yttria-Stabilized Zirconia Interface	**Regions**. II. Direct Exchange of Oxygen Vacancies Mathematical Modeling	4	1390
Dry Etching of Deep Si Trenches for	**Released** Resonators in a Cl2 Plasma	5	1767
g Amorphous Hydrogenated Silicon Nitride Film as a Resistive Field Shield and Its	**Reliability** Application of a Semi-insulatin	12	4296
ate Dopant Concentration and Interpoly Dielectric Processing on Tunnel Dielectric	**Reliability** Impact of Floating G	4	1351
Drastic Improvements of Gate Oxide	**Reliability** by Argon Annealing Compared with Hydrogen Annealing	10	3628
orine Incorporation Control	**Reliability** Improvement of AlInAs/GaInAs High Electron Mobility Transistors by Flu	8	2951
Microcrystalline Silicon Film Deposition from H2-He-SiH4 Using	**Remote** Plasma Enhanced Chemical Vapor Deposition	8	2900
SiH4	**Remote** Plasma-Enhanced Chemical Vapor Deposition of SiO2 Using Ar/N2O and	11	3957
d Dilute HF Contamination	**Removal** by Single-Wafer Spin Cleaning with Repetitive Use of Ozonized Water an	9	3278
Application of Laser-Cleaning Technique for Efficient	**Removal** of Via-Etch-Induced Polymers	11	3966
Surface Cleaning and Carbonaceous Film	**Removal** Using High Pressure, High Temperature Water, and Water/CO2 Mixtures	1	284
Contamination Removal by Single-Wafer Spin Cleaning with	**Repetitive** Use of Ozonized Water and Dilute HF	9	3278
	Report of the Electrolytic Industries for the Year 1997	10	3668
Geometric	**Requirements** of Solid Electrolyte Cells with a Reference Electrode	4	1184
ate Nuclei in CZ-Si Influence of	**Residual** Point Defect Supersaturation on the Formation of Grown-In Oxide Precipit	5	L75
Properties of a-SiOx:H Thin Films Deposited from Hydrogen Silsesquioxane	**Resins**	8	2881
w Concept of Contrast Enhancement of Resist and Its Application to Positive-Type	**Resist** Ne	4	1335
New Concept of Contrast Enhancement of	**Resist** and Its Application to Positive-Type Resist	4	1335
e Lead Alloy Hardening Process in Electric Vehicle Storage Batteries on Corrosion	**Resistance** The Effect of th	9	3183
ubmicron Metal Oxide Semiconductor Field Effect Transistors Parasitic	**Resistance** Considerations of Using Elevated Source/Drain Technology for Deep S	6	2131
Model of Cathode Reaction	**Resistance** in Molten Carbonate Fuel Cells	5	1511
Electrochemical	**Resistance** Noise during Composite Plating	2	436
try of Surface Oxides Formed during High Temperature Oxidation on the Corrosion	**Resistance** of Ferritic Chromium Steel The Effect of Nonstoichiome	7	2236
olet Light Irradiation Improvement of Pitting Corrosion	**Resistance** of Type 304 Stainless Steel by Modification of Passive Film with Ultravi	5	L79
Reduction in Contact	**Resistance** with In Situ O2 Plasma Treatment	7	2480
on Fe-Ti Alloy Comparison of Corrosion	**Resistances** Between Fe2O3-TiO2 Artificial Passivation Film and Passivation Film	8	2818
Application of a Semi-insulating Amorphous Hydrogenated Silicon Nitride Film as a	**Resistive** Field Shield and Its Reliability	12	4296
Macropore Formation in Highly	**Resistive** p-Type Crystalline Silicon	8	2958
Estimation of Front Velocity in Electrodeposition onto Highly	**Resistive** Substrates	1	165
Study of the Structural Change Due to Heat-Treatment in High	**Resistivity** Electroless NiPC Film	7	2419
of a Trigger Mechanism for Pitting Corrosion of Stainless Steels Using Submicron	**Resolution** Scanning Electrochemical and Photoelectrochemical Microscopy	8	2664
Surfaces in Sulfuric Acid Solution Atomically	**Resolved** Scanning Tunneling Microscopy Images of InP(001), (111)A, and (111)B	9	3090
Lithium-7 Nuclear Magnetic	**Resonance** Investigation of Lithium Insertion in Hard Carbon	4	1179
um Secondary Batteries Electron Spin	**Resonance** Study of the Electrochemical Reduction of Electrolyte Solutions for Lithi	11	3757
Analysis of the Superior Water Blocking Ability of Electron Cyclotron	**Resonance-Plasma** SiO2 Film	4	1338
Dry Etching of Deep Si Trenches for Released	**Resonators** in a Cl2 Plasma	5	1767
Modeling the Twin Platinum Probe Scanning Electrode	**Response**	12	4074
Agglomerate Model for DC and AC	**Response** of Phosphoric Acid Fuel Cell Cathode	1	45
Modeling of Anodic Current Transients	**Resulting** from Oxide Rupture of Plastically Strained Beta + Alpha Titanium	6	1829
Pulse	**Reverse** Copper Electrodeposition in High Aspect Ratio Trenches and Vias	9	3070
Design and Simulation of a	**Reverse** Iontophoretic Glucose Monitoring Device	12	4119
Modeling the Galvanostatic Pulse and Pulse	**Reverse** Plating of Nickel-Iron Alloys on a Rotating Disk Electrode	6	2033
Pitting Corrosion of Metals. A	**Review** of the Critical Factors	6	2186
Elastic Bending of Semiconductor Wafer	**Revisited** and Comments on Stoney's Equation	10	3621
xidation Rates for a-Si1-xCx:H Films Deposited from Pulsed and Continuous Wave	**RF** Plasmas Comparison of O	9	3271
Point Defect Dynamics and the Oxidation-Induced Stacking-Fault	**Ring** in Czochralski-Grown Silicon Crystals	1	302
Anomalous Current	**Rise** and Electrochemical Reduction in Fe2O3-TiO2 Ceramics	5	1592
Anodization and Speciation of Magnesium in Chloride-Rich	**Room** Temperature Ionic Liquids	1	24

		Issue	Page
y of Thallium in the Basic Aluminum Chloride-1-methyl-3-ethylimidazolium Chloride	**Room** Temperature Molten Salt Electrochemistr	4	1196
	Room Temperature Operating Solid-State Sensor for Chlorine Gas	7	2445
Electrodeposition of Copper and Copper-Aluminum Alloys from a	**Room-Temperature** Chloroaluminate Molten Salt	9	3110
and Determination of Surface Charge Distribution Current Distribution on a	**Rotating** Disk Electrode below the Mass-Transfer-Limited Current. Correction for Fi	6	1940
eling the Galvanostatic Pulse and Pulse Reverse Plating of Nickel-Iron Alloys on a	**Rotating** Disk Electrode Mod	6	2033
Characterization of High-Surface-Area Electrocatalysts Using a	**Rotating** Disk Electrode Configuration	7	2354
O2 Reduction on an Ink-Type	**Rotating** Disk Electrode Using Pt Supported on High-Area Carbons	11	3713
d the Convective Warburg Impedance	**Rotating** Hemispherical Electrode. Accurate Expressions for the Limiting Current an	12	4189
Impedance Studies of the Oxygen Reduction on Thin Porous Coating	**Rotating** Platinum Electrodes	7	2307
ate Oxides Impact of Iron Contamination and	**Roughness** Generated in Ammonia Hydrogen Peroxide Mixtures (SC1) on 5 nm G	7	2589
Surface and Interface	**Roughness** of Reactive Ion Etched 4H-SiC in SF6/O2 and CHF3/H2/O2 Plasmas	4	L58
	Roughness of Ultrathin Nitric Oxide Oxynitride Gate Dielectric	1	L13
Analysis of Fuel Utilization Performance of	**Round** Substrate, Planar Solid Oxide Fuel Cells	3	931
d Print Bands. I. A Prototype Tool for Electrochemical Microfinishing and Character	**Rounding** of Print Bands Surface Finishing of High Spee	9	3047
over a Pt-Ruads Surface Optimized for Oxidation of Methanol Deposition of	**Ru** Adatoms on Pt Using Organometallic Chemistry. Electro-oxidation of Methanol,	12	4182
Ultrathin Ta2O5 Film Capacitor with	**Ru** Bottom Electrode	8	2961
rative Study of the Electrochemical Behavior of Polycrystalline and Nanocrystalline	**Ru** Powder in NaOH Solution Compa	5	1624
Modeling of Anodic Current Transients Resulting from Oxide	**Rupture** of Plastically Strained Beta + Alpha Titanium	6	1829
Electrochemical Capacitors Using Hydrous	**Ruthenium** Oxide and Hydrogen Inserted Ruthenium Oxide	1	49
ectrochemical Capacitors Using Hydrous Ruthenium Oxide and Hydrogen Inserted	**Ruthenium** Oxide El	1	49
olybdenum Nitrides as Materials for Electrochemical Capacitors. Comparison with	**Ruthenium** Oxide Behavior of M	6	1882
Ethanol Electro-oxidation in	**Ruthenium-Oxide-Coated** Titanium Electrodes	11	3839

— S —

troelectrochemical Studies of Indium Hexacyanoferrate Electrodes Prepared by the	**Sacrificial** Anode Method Spec	7	2334
Catalytic Reduction of Diphenyl Disulfide by Cobalt(I)	**Salen** Electrogenerated at a Carbon Cathode in Acetonitrile	10	3374
r and Copper-Aluminum Alloys from a Room-Temperature Chloroaluminate Molten	**Salt** Electrodeposition of Coppe	9	3110
uminum Chloride-1-methyl-3-ethylimidazolium Chloride Room Temperature Molten	**Salt** Electrochemistry of Thallium in the Basic Al	4	1196
1-benzenesulfonato(2-)-O,O'] borate(1-), a New Anodically and Cathodically Stable	**Salt** for Electrolytes of Lithium-Ion Cells Lithium Bis[5-fluoro-2-olato-	2	L17
Sealing of Anodized Aluminum Alloys with Rare Earth Metal	**Salt** Solutions	8	2792
In Situ Studies of Cu Deposition in the Presence of Quaternary Ammonium	**Salts**	4	1218
s and the Study of Their Effect on Ion Pair Dissociation and Conductivity of Lithium	**Salts** in Nonaqueous Solutions The Synthesis of a New Family of Boron-Bas	8	2813
Solid Oxide Fuel Cell with Composite Electrolyte Consisting of	**Samaria-Doped** Ceria and Yttria-Stabilized Zirconia	3	1004
Chemically Deposited	**Sb2S3** and Sb2S3-CuS Thin Films	6	2113
Chemically Deposited Sb2S3 and	**Sb2S3-CuS** Thin Films	6	2113
Cu Dissolution from Si(111) into an	**SC-1** Process Solution	4	L60
ontamination and Roughness Generated in Ammonia Hydrogen Peroxide Mixtures	**(SC1)** on 5 nm Gate Oxides Impact of Iron C	7	2589
ed Gate Dielectric Films Manufactured in Reduced Pressure Furnace for Ultralarge	**Scale** Integration Complementary Metal Oxide Semiconductor Applications	5	1679
tudy of the Degradation of Mechanical Strength of Silicon Wafers Caused by Large	**Scale** Integration Processes Experimental S	9	3160
Grain Boundary Segregation of Cation Dopants in Alpha -Al2O3	**Scales**	6	1819
Quartz Crystal Microbalance Investigation of Electrochemical Calcium Carbonate	**Scaling**	7	2386
teries Differential	**Scanning** Calorimetry Study of the Reactivity of Carbon Anodes in Plastic Li-Ion Bat	2	472
	Scanning Electrochemical Microscopy with Simultaneous Independent Topography	4	L64
Electro-oxidative Deposition of C60 via	**Scanning** Electrochemical Microscope	2	503
r Mechanism for Pitting Corrosion of Stainless Steels Using Submicron Resolution	**Scanning** Electrochemical and Photoelectrochemical Microscopy Elucidatio	8	2664
Modeling the Twin Platinum Probe	**Scanning** Electrode Response	12	4074
Lithium Borate Interface	**Scanning** Force Microscopy Investigation of Surface Forces at the Tungsten Oxide/	2	669
Analysis of Surface Carbon Contamination on Phosphated Zinc Surfaces by	**Scanning** Kelvin Probe Measurements	3	L39
Characterization of AA2024-T3 by	**Scanning** Kelvin Probe Force Microscopy	7	2285
atching Corrosion Study of AA2024-T3 by	**Scanning** Kelvin Probe Force Microscopy and In Situ Atomic Force Microscopy Scr	7	2295
of Leveling Effects of Thiourea on Copper Deposition Confocal Laser	**Scanning** Microscopy, Electrochemistry, and Quartz Crystal Microbalance Studies	3	957
Nanofabrication of Small Palladium Clusters on Au(111) Electrodes with a	**Scanning** Tunnel Microscope	3	L33
13Ni Single-Crystal Surfaces X-Ray Photoelectron Spectroscopy and	**Scanning** Tunneling Microscopy Study of Passive Films Formed on (100) Fe-18Cr-	3	909
n Sulfuric Acid Solution Atomically Resolved	**Scanning** Tunneling Microscopy Images of InP(001), (111)A, and (111)B Surfaces i	9	3090
s Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron Spectroscopy and Ion	**Scattering** Spectroscopy The Passivity of Fe/Si Alloys in Aqueou	3	834
ating Disk Electrode below the Mass-Transfer-Limited Current. Correction for Finite	**Schmidt** Number and Determination of Surface Charge Distribution Current	6	1940
by Scanning Kelvin Probe Force Microscopy and In Situ Atomic Force Microscopy	**Scratching** Corrosion Study of AA2024-T3	7	2295
A New Synthetic Method to Prepare Spherical Phosphors for Emissive	**Screen** Applications	3	1017
Effects of SnO2 on the Phosphor	**Screen** Behaviors under Low Energy Electron Excitation	2	648
ogen-Storage Alloys Determination of Internal Cell Pressures in	**Sealed** Ni-MH Rechargeable Batteries Using Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92 Hydr	10	3387
Self-Discharge of	**Sealed** Nickel-Metal Hydride Batteries. Mechanisms and Improvements	3	844
Mechanism of Alloy Corrosion and Consequences on	**Sealed** Nickel-Metal Hydride Battery Performance	3	860
	Sealing of Anodized Aluminum Alloys with Rare Earth Metal Salt Solutions	8	2792
The	**Search** for Cathode and Anode Traps in High-Voltage Stressed Silicon Oxides	4	1292
The Role of Oxygen at the	**Second** Discharge Plateau of Nickel Hydroxide	1	34
Improved GaAs Bonding Process for Quasi-Phase-Matched	**Second** Harmonic Generation	1	366
onance Study of the Electrochemical Reduction of Electrolyte Solutions for Lithium	**Secondary** Batteries Electron Spin Res	11	3757
	Secondary Current Distribution in a Curvilinear Hull Cell	9	3042
Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia Interface by	**Secondary-Ion** Mass Spectrometry Active Sites Imaging for	9	3196
aces Interface State Capture Cross	**Section** Measurements on Vacuum Annealed and Radiation Damaged Si:SiO2 Surf	2	683
Grain Boundary	**Segregation** of Cation Dopants in Alpha -Al2O3 Scales	6	1819
	Segregation of Oxygen at a Solid/Liquid Interface in Silicon	5	1692
A Study of Lithium Deposition-Dissolution Processes in a Few	**Selected** Electrolyte Solutions by Electrochemical Quartz Crystal Microbalance	8	2629
An Advanced Tool for the	**Selection** of Electrolyte Components for Rechargeable Lithium Batteries	10	3482
Without H2 Carrier Gas Very Low Pressure	**Selective** Aluminum Chemical Vapor Deposition Using Dimethylaluminum Hydride	12	4327
SnO2/Bi2O3: A Suitable System for	**Selective** Carbon Monoxide Detection	3	1039
W-Clad Layer Formation on Heavily Doped p+-Si by	**Selective** Chemical Vapor Deposition	12	4203
Pd-Loaded Carbon Felt as the Cathode for	**Selective** Dechlorination of 2,4-Dichlorophenoxyacetic Acid in Aqueous Solution	11	3844
Effect of Fluorine on Surface Morphology in	**Selective** Epitaxial TiSi2 Growth by Plasma-Enhanced Chemical Vapor Deposition	5	1640
Wet Etching of Al2O3 for	**Selective** Patterning of Microstructures Using Ar+ Ion Implantation and H3PO4	1	344
Low Thermal Budget In Situ Surface Cleaning for	**Selective** Silicon Epitaxy	10	3602
cal Vapor Deposition and Film Characterization	**Selective** Titanium Silicide Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemi	11	3941
	Selective Wet Etching of Lithium Gallate	5	L88
Atomic Layer Epitaxy of Copper. Growth and	**Selectivity** in the Cu(II)-2,2,6,6-tetramethyl-3,5-heptanedionate/H2 Process	8	2926
Photoluminescence Studies of Cadmium	**Selenide** Crystals in Contact with Group III Trialkyl Derivatives	7	2475
Potentiostatic Oxide Formation on Lead	**Selenide** Single Crystals in Alkaline Solutions	8	2806
The Electrochemical Oxidation of 1,4-Bis(methylseleno)benzene	**(Selenium** Analog of Wurster's Blue) in Acetonitrile	2	541
Dopant Effects on Lateral Silicide Growth in	**Self-Aligned** Titanium Silicide Process	10	3585
A Novel Nanolithographic Concept Using Crack-Assisted Patterning and	**Self-Alignment** Technology	6	2120
Electrochemical Quartz Crystal Microbalance Studies of Polypyrrole Growth on	**Self-Assembled** Nucleation Sites	5	1483
g by Means of Three-Electrode Measurements	**Self-Discharge** of LiMn2O4/C Li-Ion Cells in Their Discharged State. Understandin	1	194
ments	**Self-Discharge** of Sealed Nickel-Metal Hydride Batteries. Mechanisms and Improve	3	844
ectrolyte Membranes for Fuel Cells Analyses of	**Self-Humidification** and Suppression of Gas Crossover in Pt-Dispersed Polymer El	4	1137
	Self-Organized Formation of Hexagonal Pore Structures in Anodic Alumina	11	3735
Monolithic,	**Self-Powered** Photovoltaic-Electrochromic Coating for Windows	10	3545
Shield and Its Reliability Application of a	**Semi-insulating** Amorphous Hydrogenated Silicon Nitride Film as a Resistive Field	12	4296
Photoluminescence of	**Semi-insulating** InP Wafers Prepared by Two-Step Wafer Annealing	3	1048

		Issue	Page
Microstructural Changes in a Polycrystalline,	**Semiconducting** Oxide under DC Electric Fields	12	4243
on Passivity in Borate Buffer. Formation of a Deposit Layer and Its Influence on the	**Semiconducting** Properties Ir	2	609
Electrical Characterization of the	**Semiconducting** Properties of n-TiO2	10	3550
of the Alloying Elements	**Semiconducting** Properties of Passive Films Formed on Stainless Steels. Influence	11	3821
on Iron Comparison of the	**Semiconductive** Properties of Sputter-Deposited Iron Oxides with the Passive Film	2	378
ced Pressure Furnace for Ultralarge Scale Integration Complementary Metal Oxide	**Semiconductor** Applications Characterization of High Quality Nitrided Gate	5	1679
Surface State Generation of Mo Gate Metal Oxide	**Semiconductor** Devices Caused by Mo Penetration into Gate Oxide	4	1297
Highly Purified Silane Gas for Advanced Silicon	**Semiconductor** Devices	10	3560
Measurements of VOCs with a	**Semiconductor** Electronic Nose	7	2486
tions of Using Elevated Source/Drain Technology for Deep Submicron Metal Oxide	**Semiconductor** Field Effect Transistors Parasitic Resistance Considera	6	2131
Noise as a Diagnostic Tool for	**Semiconductor** Material and Device Characterization	6	2058
Electrical Characterization of 6H-SiC Metal Oxide	**Semiconductor** Structures at High Temperature	1	299
Controlled Anodic Oxidation for High Precision Etch Depth in AlGaAs III-V	**Semiconductor** Structures	3	1076
xperimental Methods for Investigating the Defect Properties of SiO2 in Metal Oxide	**Semiconductor** Transistors E	10	3638
Elastic Bending of	**Semiconductor** Wafer Revisited and Comments on Stoney's Equation	10	3621
ns of Iron-Containing Clay Modified Electrodes and Their Applications for Glucose	**Sensing** Characterizatio	1	154
as Electrolytes	**Sensing** Properties of an Oxygen Sensor Using BaCe0.8Gd0.2O3-alpha Ceramics	5	1744
Current Change Method of Reducing Gas	**Sensing** Using ZnO Varistors	8	2920
pyrrole with Polyion Complexes Highly	**Sensitive** Microbiosensor for Creatinine Based on the Combination of Inactive Poly	2	406
Detection of Metallic Contaminants on Silicon by Surface	**Sensitive** Minority Carrier Lifetime Measurements	7	2602
Thermogravimetric/Mass and Infrared Spectroscopic Properties and Humidity	**Sensitivity** of Polyaniline Derivatives/Polyvinyl Alcohol Composites	10	3351
Enhanced CO and CO2 Gas	**Sensitivity** of the CuO/ZnO Heterocontact Made by Quenched CuO Ceramics	2	632
Low Pressure Chemically Vapor Deposited WO3 Thin Films for Integrated Gas	**Sensor** Applications	4	1346
Room Temperature Operating Solid-State	**Sensor** for Chlorine Gas	7	2445
A Methanol	**Sensor** for Portable Direct Methanol Fuel Cells	11	3783
Sensing Properties of an Oxygen	**Sensor** Using BaCe0.8Gd0.2O3-alpha Ceramics as Electrolytes	5	1744
ed Zirconia Influence of Humidity on a Potentiometric CO2 Gas	**Sensor** Using a Combined Electrolyte of Sodium Ion Conducting Glass and Stabiliz	9	2981
Tungsten Oxide	**Sensors** for Detecting Sub-ppm NO2 Using Photochemically Produced Amorphous	12	4219
Steady-State and Transient Behavior of Thick-Film Tin Oxide	**Sensors** in the Presence of Gas Mixtures	5	1772
ns Chemical	**Sensors** with Catalytic Metal Gates. Switching Behavior and Kinetic Phase Transitio	10	3401
Extension of Dose Window for Low-Dose	**Separation** by Implanted Oxygen	5	1735
Incorporation of Cadmium Sulfide into Nanoporous Silicon by	**Sequential** Chemical Deposition from Solution	7	2448
rce Microscopy	**Sequential** Observation of Electroless Copper Deposition via Noncontact Atomic Fo	9	3301
Diode-Like Property of Prussian Blue Films Containing Concentration Gradients in	**Serial** Mixed Valent Layers	11	3788
Sputtered Cr and Reactively Sputtered CrNx	**Serving** as Barrier Layers Against Copper Diffusion	12	4290
The Effects of Fluorine Passivation Using	**SF6** Plasma on the Corrosion of Al(Cu 1%) at Grain Boundaries	3	1044
Surface Roughness of Reactive Ion Etched 4H-SiC in	**SF6/O2** and CHF3/H2/O2 Plasmas	4	L58
	Shape Evolution of Electrodeposited Bumps with Deep Cavity	9	3007
Heat Transfer, Fluid Flow, and Interface	**Shapes** in Zone Melting Processing with Induction Heating	11	3926
ive Hydrogenation of 4-Methylstyrene with Active Hydrogen Passing Through a Pd	**Sheet** Electrode Effect of Pd Black Deposits on Success	1	138
Semi-insulating Amorphous Hydrogenated Silicon Nitride Film as a Resistive Field	**Shield** and Its Reliability Application of a	12	4296
Si2 on p+ Polysilicon Gates Fabricated by BF2+ Implantation into CoSi/Amorphous	**Si** Bilayers Effects of Co	10	3590
Enhanced Diffusion of Boron in	**Si** during Doping from Borosilicate Glass	7	2534
A Low Temperature Silicon-on-Insulator Fabrication Process Using	**Si** MBE on Double-Layer Porous Silicon	5	1668
Oxygen Solubilities in	**Si** Melts: The Influence of Carbon Addition	1	319
Oxygen Vacancies in SiO2 Layers on	**Si** Produced at High Temperature	9	3157
Experimental Parameters on Void Formation in the Growth of 3C-SiC Thin Film on	**Si** Substrate Effects of	1	292
Hydrogen Exchange Reaction on Hydrogen-Terminated (100)	**Si** Surface during Storage in Water	2	659
Dry Etching of Deep	**Si** Trenches for Released Resonators in a Cl2 Plasma	5	1767
Temperature Dependence of Carrier Recombination Lifetime in	**Si** Wafers	9	3265
Cu Dissolution from	**Si(111)** into an SC-1 Process Solution	4	L60
Oxide Films Deposited by Atmospheric Pressure Chemical Vapor Deposition Using	**Si(OC2H5)4** and O3 Effects of Substrate on the Growth Characteristics of Sil	8	2847
Modeling of the Transient Behavior of Anodic Oxides Formed in	**Si/HF** Electrolyte Systems	1	332
cuum Ultraclean	**Si/Si** Interface Formation by Surface Preparation and Direct Bonding in Ultrahigh Va	5	1645
Boron Diffusion in Compressively Stressed Float Zone-Silicon Induced by	**Si3N4** Films	1	258
pture Cross Section Measurements on Vacuum Annealed and Radiation Damaged	**Si:SiO2** Surfaces Interface State Ca	2	683
Sublimation Studies of	**SiC** by Using a Quadrupole Mass Spectrometer	10	3556
Etching of	**SiC** Using Inductively Coupled Plasma	10	3609
ecomposition of Trichloroethylene by Microwave-Induced Plasma Generated from	**SiC** Whiskers D	1	229
Modeling	**Side** Reactions in Composite LiyMn2O4 Electrodes	3	990
Capacity Fade Mechanisms and	**Side** Reactions in Lithium-Ion Batteries	10	3647
et H2S Correlation Between Acoustic Emission	**Signals** and Hydrogen Permeation in High Strength, Low Alloy Steel Cracking in W	6	1988
Remote Plasma-Enhanced Chemical Vapor Deposition of SiO2 Using Ar/N2O and	**SiH4**	11	3957
on Selective Titanium Silicide Deposition Using	**SiH4-TiCl4-H2** in Low-Pressure Chemical Vapor Deposition and Film Characterizati	11	3941
The Effects of Gas-Phase Additives NH3, NO, and NO2 on	**SiH4/O2** Chemical Vapor Deposition	3	1070
tics of the Low-Pressure Chemical Vapor Deposition of Polycrystalline Silicon from	**Silane** The Kine	4	1318
Highly Purified	**Silane** Gas for Advanced Silicon Semiconductor Devices	10	3560
Deposition of	**Silica** Films Using Electrochemical Procedures	6	1812
Vapor Deposition Mechanism of Amorphous	**Silica** Film Formation from Tetraethoxysilane in Atomic Oxygen-Induced Chemical	8	2866
Low Temperature Silicon Wafer-to-Wafer Bonding with Nickel	**Silicide**	4	1360
on and Film Characterization Selective Titanium	**Silicide** Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor Deposiiti	11	3941
Dopant Effects on Lateral	**Silicide** Growth in Self-Aligned Titanium Silicide Process	10	3585
Dopant Effects on Lateral Silicide Growth in Self-Aligned Titanium	**Silicide** Process	10	3585
Limitation of HF-Based Chemistry for Deep-Submicron Contact Hole Cleaning on	**Silicides**	9	3240
re Silicon-on-Insulator Fabrication Process Using Si MBE on Double-Layer Porous	**Silicon** A Low Temperatu	5	1668
Furnace Parts on Radial Impurity Distribution in Czochralski-Grown Single-Crystal	**Silicon** The Impact of Graphite	2	621
Segregation of Oxygen at a Solid/Liquid Interface in	**Silicon**	5	1692
s Electrolyte Interface: A Possible Mechanism for Chemiluminescence from Porous	**Silicon** Hole Injection at the Silicon/Aqueou	4	1232
Electrical and Recombination Properties of Copper-Silicide Precipitates in	**Silicon**	11	3889
Gettering of Iron to Implantation Induced Cavities and Oxygen Precipitates in	**Silicon**	4	1400
fect of Surface Iron on Photoconductivity Carrier Recombination Lifetime of p-Type	**Silicon** Ef	5	1724
Macropore Formation in Highly Resistive p-Type Crystalline	**Silicon**	8	2958
Aqueous KOH Etching of	**Silicon** (110). Etch Characteristics and Compensation Methods for Convex Corners	7	2499
Tribochemical Reactions of	**Silicon**: An In Situ Infrared Spectroscopy Characterization	7	2465
Growth and Characterization of Eu:Y2O3 Thin-Film Phosphors on	**Silicon** and Diamond-Coated Silicon Substrates	10	3456
Analysis of Iron Precipitation in	**Silicon** as a Basis for Gettering Simulations	12	4259
Atomic-Order Thermal Nitridation of	**Silicon** at Low Temperatures	12	4252
Quantitative Evaluation of Precipitated Oxygen in	**Silicon** by Infrared Spectroscopy. Still an Open Problem	5	1715
Determination of the Trap Density in Amorphous	**Silicon** by Quasi-static Capacitance-Voltage Measurements	5	1786
Incorporation of Cadmium Sulfide into Nanoporous	**Silicon** by Sequential Chemical Deposition from Solution	7	2448
Detection of Metallic Contaminants on	**Silicon** by Surface Sensitive Minority Carrier Lifetime Measurements	7	2602
A Kinetic Study of the Chemical Vapor Deposition of	**Silicon** Carbide from Dichlorodimethylsilane Precursors	4	1277
Subparabolic Oxidation Behavior of	**Silicon** Carbide at 1300 C	8	2876
Steady-State Multiplicity Phenomena in the Deposition of	**Silicon** Carbide	11	3908
Optimization of Polysilicon Encapsulated Local Oxidation of	**Silicon**. Cavity Dimension Effects on Mechanical Stress and Gate Oxide Integrity	5	1653
Reactive Ion Etching of	**Silicon** Containing Polynorbornenes	4	1257
Electrical Characterization of Thin SiO2 Films on	**Silicon** Created by Anodic Oxygen Corona Discharge Processing	8	2937
ct Dynamics and the Oxidation-Induced Stacking-Fault Ring in Czochralski-Grown	**Silicon** Crystals Point Defe	1	302

		Issue	Page
tudy, Composition, and Microstructure of Low-Pressure Chemical Vapor Deposited	**Silicon** Dioxide Films Grown from TEOS/N2O Mixtures Thermodynamic S	4	1310
Luminescence from Erbium-Doped	**Silicon** Epi Layers Grown by Liquid-Phase Epitaxy	1	L8
Low Thermal Budget In Situ Surface Cleaning for Selective	**Silicon** Epitaxy	10	3602
us and Nonaqueous In Situ and Ex Situ Photoluminescent Emissions from Porous	**Silicon**. Evidence for Surface-Bound Emitters On the Correlation of Aqueo	9	3284
emical Vapor Deposition Amorphous Hydrogenated	**Silicon** Films for Solar Cell Application Obtained with 55 kHz Plasma Enhanced Ch	7	2508
al Vapor Deposition Microcrystalline	**Silicon** Film Deposition from H2-He-SiH4 Using Remote Plasma Enhanced Chemic	8	2900
n Relationship Between Structural and Optical Properties in Polycrystalline	**Silicon** Films Prepared at Low Temperature by Plasma-Enhanced Chemical Vapor	10	3615
Optical Monitoring of Capacitance in Hemispherical Grain Polycrystalline	**Silicon** for Advanced Dynamic Random Access Memory Application	11	3935
A Comparative Electrochemical Study of Copper Deposition onto	**Silicon** from Dilute and Buffered Hydrofluoric Acids	1	241
Electrochemical Impedance Spectroscopy of Copper Deposition on	**Silicon** from Dilute Hydrofluoric Acid Solutions	1	352
The Kinetics of the Low-Pressure Chemical Vapor Deposition of Polycrystalline	**Silicon** from Silane	4	1318
The Thermal Stability of CoSi2 on Polycrystalline Silicon: The Effect of	**Silicon** Grain Size and Metal Thickness	4	1384
High-Concentration Arsenic-Doped	**Silicon** Hydrogenated by Microwave Plasma	3	1028
A Raman Study of Etching	**Silicon** in Aqueous Tetramethylammonium Hydroxide	11	4040
In Situ Infrared Study of the Oscillating Anodic Dissolution of	**Silicon** in Fluoride Electrolytes	3	964
Evaporation of Oxygen-Containing Species from Boron-Doped	**Silicon** Melts	7	2548
Tribochemical Polishing of	**Silicon** Nitride	5	1708
	Silicon Nitride Chemical Mechanical Polishing Mechanisms	11	3919
Application of a Semi-insulating Amorphous Hydrogenated	**Silicon** Nitride Film as a Resistive Field Shield and Its Reliability	12	4296
Nitrogen Incorporation in Thin	**Silicon** Oxides in a N2O Plasma. Effects of Processing Conditions	2	662
Differentiation Between Electric Breakdowns and Dielectric Breakdown in Thin	**Silicon** Oxides	3	1033
The Search for Cathode and Anode Traps in High-Voltage Stressed	**Silicon** Oxides	4	1292
ealing on Oxygen Depth Profiles and Chemical Etching Rates of Thermally Grown	**Silicon** Oxides Effects of Ann	4	1306
Boron Diffusion in	**Silicon** Oxides and Oxynitrides	6	2068
g Si(OC2H5)4 and O3 Effects of Substrate on the Growth Characteristics of	**Silicon** Oxide Films Deposited by Atmospheric Pressure Chemical Vapor Depositio	8	2847
Nitrogen Concentration Dependence on Boron Diffusion in Thin	**Silicon** Oxynitrides Used for Metal-Oxide-Semiconductor Devices	2	689
Oxidation Studies of	**Silicon** Oxynitride Ceramics	4	1355
Deposition and Chemical Composition of	**Silicon** Oxynitride from Methylsilazane in Ammonia and Nitrous Oxide	6	1902
Field Oxide Thinning Behavior in Local Oxidation of	**Silicon** Process under Enhanced Oxidation Conditions	5	1664
Highly Purified Silane Gas for Advanced	**Silicon** Semiconductor Devices	10	3560
Optimized Diode Analysis of Electrical	**Silicon** Substrate Properties	6	2107
Characterization of Eu:Y2O3 Thin-Film Phosphors on Silicon and Diamond-Coated	**Silicon** Substrates Growth and	10	3456
Adsorption of Metal Ions onto Hydrophilic	**Silicon** Surfaces from Aqueous Solution: Effect of pH	8	2841
Change in Microroughness of a	**Silicon** Surface during In Situ Cleaning Using HF and HCl Gases	12	4264
The Thermal Stability of CoSi2 on Polycrystalline	**Silicon**: The Effect of Silicon Grain Size and Metal Thickness	4	1384
umping Model and Characterization of Process-Dependent Traps in Polycrystalline	**Silicon** Thin Film Transistors A New Charge P	8	2883
Novel Method for the Formation of Large-Grained,	**Silicon** Thin Films on Amorphous Substrates	11	3963
of Crystal Quality by Crystal Originated Particle Delineation and the Impact on the	**Silicon** Wafer Surface Characterization	1	275
Laser Microwave Photoconductance Studies of Ultraviolet-Irradiated	**Silicon** Wafers. Effect of Metallic Contamination	1	329
Low Temperature	**Silicon** Wafer-to-Wafer Bonding with Nickel Silicide	4	1360
Optical Method for Monitoring Metal Contamination during Aqueous Processing of	**Silicon** Wafers An	5	1688
Thickness Measurements of Epitaxial Layers of Double Epitaxial	**Silicon** Wafers by Far-Infrared Reflection	5	1720
Gravitational Stress-Induced Dislocations in Large-Diameter	**Silicon** Wafers Studied by X-Ray Topography and Computer Simulation	7	2523
Experimental Study of the Degradation of Mechanical Strength of	**Silicon** Wafers Caused by Large Scale Integration Processes	9	3160
Changes in the Environment of Hydrogen in Porous	**Silicon** with Thermal Annealing	7	2439
licon A Low Temperature	**Silicon-on-Insulator** Fabrication Process Using Si MBE on Double-Layer Porous Si	5	1668
Method for Measuring Deep Levels in Thin	**Silicon-on-Insulator** Layer Without Any Interface Effects	10	3581
The Realization of	**Silicon-on-Insulator** Utilizing Trench-before-Bond and Polish Stop Technology	5	1738
ce from Porous Silicon Hole Injection at the	**Silicon/Aqueous** Electrolyte Interface: A Possible Mechanism for Chemiluminescen	4	1232
Materials Issues with Thin Film Hydrogen	**Silsesquioxane** Low K Dielectrics	11	4019
Properties of a-SiOx:H Thin Films Deposited from Hydrogen	**Silsesquioxane** Resins	8	2861
Behavior of	**Silver** in Physiological Solutions	5	1426
Recombination Centers Created by Ar+-Ion Implantation into	**SIMOX** Substrates	5	1795
ns in Large-Diameter Silicon Wafers Studied by X-Ray Topography and Computer	**Simulation** Gravitational Stress-Induced Dislocatio	7	2523
Modeling of Solid Oxide Heat Exchanger Integrated Stacks and	**Simulation** at High Fuel Utilization	11	3995
Design and	**Simulation** of a Reverse Iontophoretic Glucose Monitoring Device	12	4119
Molecular Dynamics	**Simulation** of V2O5/Li2SiO3 Interface	6	2155
Analysis of Iron Precipitation in Silicon as a Basis for Gettering	**Simulations**	12	4259
An Electrochemical Cell for	**Simultaneous** In Situ X-Ray Diffraction and Optical Measurements	8	2759
Scanning Electrochemical Microscopy with	**Simultaneous** Independent Topography	4	L64
alysts Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes. III.	**Simultaneous** Reduction of Carbon Dioxide and Nitrite Ions with Various Metal Cat	2	595
alysts Electrochemical Synthesis of Urea at Gas-Diffusion Electrodes. IV.	**Simultaneous** Reduction of Carbon Dioxide and Nitrate Ions with Various Metal Cat	7	2348
retical Analysis and Methods Monitoring Degradation of	**Single** and Multilayer Organic Coatings. I. Absorption and Transport of Water: Theo	11	3830
Electrochemical Determination of the Porosity of	**Single** and Duplex PVD Coatings of Titanium and Titanium Nitride on Brass	12	4173
al Electrochemical Mass Spectroscopy Applied to the Photocorrosion of p-InP(111)	**Single** Crystals A New Inlet System for Differenti	2	576
Potentiostatic Oxide Formation on Lead Selenide	**Single** Crystals in Alkaline Solutions	8	2806
Electrochemical Deposition of Prussian Blue from a	**Single** Ferricyanide Solution	7	2231
Oxygen Diffusion in	**Single-Crystal** In2O3 and Tin-Doped In2O3	8	2910
act of Graphite Furnace Parts on Radial Impurity Distribution in Czochralski-Grown	**Single-Crystal** Silicon The Imp	2	621
ning Tunneling Microscopy Study of Passive Films Formed on (100) Fe-18Cr-13Ni	**Single-Crystal** Surfaces X-Ray Photoelectron Spectroscopy and Scan	3	909
	Single-Electrode Peltier Heats of Li-Si Alloy Electrodes in LiCl-KCl Eutectic Melt	6	1986
ities and Chemical Potential Variation in Solid Oxide Fuel Cells with Multilayer and	**Single-Layer** Oxide Electrolytes Comparison of Power Dens	1	99
Contamination Removal by	**Single-Wafer** Spin Cleaning with Repetitive Use of Ozonized Water and Dilute HF	9	3278
sis of the Superior Water Blocking Ability of Electron Cyclotron Resonance-Plasma	**SiO2** Film Analy	4	1338
Irregular Surface and Porous Structure of	**SiO2** Films Deposited at Low Temperature and Low Pressure	7	2569
Electrical Characterization of Thin	**SiO2** Films on Silicon Created by Anodic Oxygen Corona Discharge Processing	8	2937
Experimental Methods for Investigating the Defect Properties of	**SiO2** in Metal Oxide Semiconductor Transistors	10	3638
Oxygen Vacancies in	**SiO2** Layers on Si Produced at High Temperature	9	3157
Surface Pits Observed on	**SiO2** Thermally Grown at High Temperatures on (111)-Oriented Czochralski-Silicon	6	2143
Substrate Effects on Hardness and Polishing of	**SiO2** Thin Films	5	1790
Remote Plasma-Enhanced Chemical Vapor Deposition of	**SiO2** Using Ar/N2O and SiH4	11	3957
	SiOF Film Deposition Using FSi(OC2H5)3 Gas in a Helicon Plasma Source	7	2576
miconductor Field Effect Transistor Optimization of	**SiON** Film Compositions for Encapsulation of Refractory Metal Gate GaAs Metal-Se	1	323
The Effects of Dopants and A:B	**Site** Nonstoichiometry on Properties of Perovskite-Type Proton Conductors	5	1780
Crystal Microbalance Studies of Polypyrrole Growth on Self-Assembled Nucleation	**Sites** Electrochemical Quartz	5	1483
Determination of Precursor	**Sites** for Pitting Corrosion of Polycrystalline Titanium by Using Different Techniques	6	2005
onis Interface by Secondary-Ion Mass Spectrometry Active	**Sites** Imaging for Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirc	9	3196
face-Bound Emitters On the Correlation of Aqueous and Nonaqueous In	**Situ** and Ex Situ Photoluminescent Emissions from Porous Silicon. Evidence for Sur	9	3284
Corrosion Study of AA2024-T3 by Scanning Kelvin Probe Force Microscopy and In	**Situ** Atomic Force Microscopy Scratching	7	2295
scillations Regime In	**Situ** Characterization of the p-Si/NH4F Interface during Dissolution in the Current O	2	498
In	**Situ** Characterization of Methylsilsesquioxane Curing	11	4007
Change in Microroughness of a Silicon Surface during In	**Situ** Cleaning Using HF and HCl Gases	12	4264
In	**Situ** Determination of the Composition of Surface Films Formed on Fe-Cr Alloys	6	1922
Catalytic Activity Measurements of an IrO2 Film Deposited on YSZ Subjected to In	**Situ** Electrochemical Promotion Work Function and	3	905
f a Gold Electrode in Perchloric Acid Solution Containing Chloride Ion An In	**Situ** Electrochemical Quartz Crystal Microbalance Study of the Dissolution Process	5	1614
emical Mechanical Polishing In	**Situ** Electrochemical Investigation of Tungsten Electrochemical Behavior during Ch	9	3190
In	**Situ** Ellipsometric Study of the Electroprecipitation of Nickel Hydroxide Films	4	1174
nges of Copper Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole. In	**Situ** EQCM and Phase Measurement Interferometric Microscopy Electroche	7	2369

		Issue	Page
-Temperature Conditions on Passive Layer Growth on Li Intercalation Materials. In	**Situ** Impedance Study Effect of Low	8	2711
Hydrogen Evolution Characterized by In Situ Ultraviolet-Visible Ellipsometry and In	**Situ** Infrared Spectroscopy Surface Composition of n-GaAs Cathodes during	2	447
on Platinum and Palladium Surfaces In	**Situ** Infrared Reflection Absorption Spectroscopy Studies of Sulfuric Acid Formation	2	487
lytes In	**Situ** Infrared Study of the Oscillating Anodic Dissolution of Silicon in Fluoride Electro	3	964
Tribochemical Reactions of Silicon: An In	**Situ** Infrared Spectroscopy Characterization	7	2465
Adsorption of Thiourea on Copper Electrodes Monitored by In	**Situ** Infrared Spectroscopy	10	3366
ns at Graphite Electrodes In	**Situ** Investigation of the Electrochemical Reduction of Carbonate Electrolyte Solutio	4	1081
n2-xO4 Spinels (0.1 x 0.5): A New Class of Cathode Materials for Li Batteries. II. In	**Situ** Measurements LiCuxM	10	3383
anically Alloyed Sn2Fe In	**Situ** Mossbauer Effect Studies of the Electrochemical Reaction of Lithium with Mech	12	4195
Reduction in Contact Resistance with In	**Situ** O2 Plasma Treatment	7	2480
Emitters On the Correlation of Aqueous and Nonaqueous In Situ and Ex	**Situ** Photoluminescent Emissions from Porous Silicon. Evidence for Surface-Bound	9	3284
uminescent Flat Panel Display Applications In	**Situ** Pulsed Deposition Studies of Ce(tmhd)4 on SrS Surfaces for Thin Film Electrol	12	4271
ntercalation In	**Situ** Raman Studies of Graphite Surface Structures during Lithium Electrochemical I	3	765
In	**Situ** Raman Spectroscopy of LixV2O5 in a Lithium Rechargeable Battery	3	847
latinum Particles Dispersed in High-Area Carbon in Aqueous Electrolytes In	**Situ** Real-Time Pt LIII-Edge X-Ray Absorption Spectra of Carbon Monoxide Adsorb	1	80
In	**Situ** Studies of Cu Deposition in the Presence of Quaternary Ammonium Salts	4	1218
Low Thermal Budget In	**Situ** Surface Cleaning for Selective Silicon Epitaxy	10	3602
Composition of n-GaAs Cathodes during Hydrogen Evolution Characterized by In	**Situ** Ultraviolet-Visible Ellipsometry and In Situ Infrared Spectroscopy Surfac	2	447
Structural Evolution of LixMn2O4 in Lithium-Ion Battery Cells Measured In	**Situ** Using Synchrotron X-Ray Diffraction Techniques	2	486
during Redox Reactions In	**Situ** X-Ray Absorption Spectroscopic Study of Electrodeposited Nickel Oxide Films	4	1121
In	**Situ** X-Ray Study of LiMnO2	8	2672
An Electrochemical Cell for Simultaneous In	**Situ** X-Ray Diffraction and Optical Measurements	8	2759
Electrochemical Behavior of Cr2O3/Fe2O3 Artificial Passive Films Studied by In	**Situ** XANES	3	791
Boron in Polycrystalline	**SixGe1-x** Films. Phase Diagram and Solid Solubility	7	2530
he Thermal Stability of CoSi2 on Polycrystalline Silicon: The Effect of Silicon Grain	**Size** and Metal Thickness T	4	1384
The Effect of Particle	**Size** on the Discharge Performance of a Nickel-Metal Hydride Cell	6	1840
nodisperse Particles Characteristic Features of	**Size-Selective** Photoetching of CdS Nanoparticles as a Means of Preparation of Mo	6	1964
An Investigation of	**Slurry** Chemistry Used in Chemical Mechanical Planarization of Aluminum	6	2074
The Reaction of Clean Li Surfaces with	**Small** Molecules in Ultrahigh Vacuum. II. Water	1	159
e Nanofabrication of	**Small** Palladium Clusters on Au(111) Electrodes with a Scanning Tunnel Microscop	3	L33
Dry Etch Patterning of LaCaMnO3 and	**SmCo** Thin Films	7	2512
Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion Conductor. I. Doped	**SmCoO3** as a New Cathode Material Intermediate Temperature	9	3177
ffect Studies of the Electrochemical Reaction of Lithium with Mechanically Alloyed	**Sn2Fe** In Situ Mossbauer E	12	4195
Effects of	**SnO2** on the Phosphor Screen Behaviors under Low Energy Electron Excitation	2	648
Thin-Film Crystalline	**SnO2**-Lithium Electrodes	1	1
	SnO2/Bi2O3: A Suitable System for Selective Carbon Monoxide Detection	3	1039
Oxidation and Reduction of Liquid	**SnPb** (60/40) under Ambient and Vacuum Conditions	6	2138
tory Studies of the Mechanism of the Electrochemical Reduction of the Nitroolefins	**so** Produced Cathodically Promoted Addition of Nitromethane to Aldehydes	8	2768
Electrochemical Study on the Cationic Promotion of the Catalytic	**SO2** Oxidation in Pyrosulfate Melts	11	3721
Some Aspects of the Atmospheric Corrosion of Copper in the Presence of	**Sodium** Chloride	4	1093
Electrosynthesis of	**Sodium** Hydrosulfite. I. Development of an Online Process Control Monitor	12	4052
Electrosynthesis of	**Sodium** Hydrosulfite. II. The Effect of Cathode Material	12	4057
Electrosynthesis of	**Sodium** Hydrosulfite. III. Porous Cathode Materials and Process Model	12	4062
of Humidity on a Potentiometric CO2 Gas Sensor Using a Combined Electrolyte of	**Sodium** Ion Conducting Glass and Stabilized Zirconia Influence	9	2981
Mathematical Modeling of	**Soft** Baking in Photoresist Processing	12	4256
Characterization of	**Sol-Gel-Derived** Cobalt Oxide Xerogels as Electrochemical Capacitors	12	4097
A Plasticized Polymer-Electrolyte-Based Photoelectrochemical	**Solar** Cell	1	121
osition Amorphous Hydrogenated Silicon Films for	**Solar** Cell Application Obtained with 55 kHz Plasma Enhanced Chemical Vapor Dep	7	2508
	Solar Cells Coated with Fluorescent Coloring Agent	8	2955
Geometric Requirements of	**Solid** Electrolyte Cells with a Reference Electrode	4	1184
Chemical Formation of a	**Solid** Electrolyte Interface on the Carbon Electrode of a Li-Ion Cell	5	1506
Low Overvoltage Mechanism of High Ionic Conducting Cathode for	**Solid** Oxide Fuel Cell	3	L35
Comparison of Power Densities and Chemical Potential Variation in	**Solid** Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolytes	1	99
Engineering of	**Solid** Oxide Fuel Cells with Ceria-Based Electrolytes	2	414
eria-Based Anodes High-Performance Electrode for Medium-Temperature	**Solid** Oxide Fuel Cells. Effects of Composition and Microstructures on Performance	2	615
Analysis of Fuel Utilization Performance of Round Substrate, Planar	**Solid** Oxide Fuel Cells	3	931
a and Yttria-Stabilized Zirconia	**Solid** Oxide Fuel Cell with Composite Electrolyte Consisting of Samaria-Doped Ceri	3	1004
Thermal Expansion of Nickel-Zirconia Anodes in	**Solid** Oxide Fuel Cells during Fabrication and Operation	4	1374
Utilization of Hydrogen Sulfide in an Intermediate-Temperature Ceria-Based	**Solid** Oxide Fuel Cell	5	1449
Effect of Mixed-Conducting Interfacial Layers on	**Solid** Oxide Fuel Cell Anode Performance	5	1696
Gas Conversion Impedance: A Test Geometry Effect in Characterization of	**Solid** Oxide Fuel Cell Anodes	7	2431
SmCoO3 as a New Cathode Material Intermediate Temperature	**Solid** Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion Conductor. I. Doped	9	3177
on Modeling of	**Solid** Oxide Heat Exchanger Integrated Stacks and Simulation at High Fuel Utilizati	11	3995
ases Appearing in the CeZrO4-CeZrO3.5 System and the Formation of Metastable	**Solid** Solutions Thermodynamic Behavior of Various Ph	4	1406
Boron in Polycrystalline SixGe1-x Films. Phase Diagram and	**Solid** Solubility	7	2530
Electric Properties of [(ZrO2)0.8(CeO2)0.2]0.9(CaO)0.1	**Solid** Solution	7	2552
Sr- and Ni-Doped LaCoO3 and LaFeO3 Perovskites. New Cathode Materials for	**Solid-Oxide** Fuel Cells	9	3220
Gradual Internal Methane Reforming in Intermediate-Temperature	**Solid-Oxide** Fuel Cells	10	3487
quivalent Circuit Approximation to Porous Mixed-Conducting Oxygen Electrodes in	**Solid-State** Cells E	1	142
terials Containing Macrocyclic Pseudo-Crown Ether Cavities Electroformed from a	**Solid-State** Electropolymerization Reaction Electroactive Ma	12	4110
racterization of Electropolymerized Polyindole. Application in the Construction of a	**Solid-State**, Ion-Selective Electrode Cha	12	4103
Electrochemistry of Anodes in	**Solid-State** Li-Ion Polymer Batteries	9	3135
+ Diffusion Coefficient	**Solid-State** Reaction Kinetics of LaCrO3 from the Oxides and Determination of La3	6	2090
Room Temperature Operating	**Solid-State** Sensor for Chlorine Gas	7	2445
Segregation of Oxygen at a	**Solid/Liquid** Interface in Silicon	5	1692
Oxygen	**Solubilities** in Si Melts: The Influence of Carbon Addition	1	319
Boron in Polycrystalline SixGe1-x Films. Phase Diagram and Solid	**Solubility**	7	2530
eling Microscopy Images of InP(001), (111)A, and (111)B Surfaces in Sulfuric Acid	**Solution** Atomically Resolved Scanning Tunn	9	3090
of Pd-Coated Metal Hydride Electrodes with Different Binding Additives in Alkaline	**Solution** The Electrochemical Performance	12	4169
Study of Tin Cementation in Alkaline	**Solution**	1	186
Fibrous and Porous Microstructure Formation in 6H-SiC by Anodization in HF	**Solution**	7	2456
on-Plane Model for the Open-Circuit Potential of Copper in Aerated Copper Sulfate	**Solution** A Reacti	2	590
ectrochemical Behavior of Polycrystalline and Nanocrystalline Ru Powder in NaOH	**Solution** Comparative Study of the El	5	1624
ly Conductive Boron-Doped Diamond Electrodes for Oxygen Reduction in Alkaline	**Solution** Electrochemical Behavior of High	6	1870
Electrochemistry of TiN in 6 M KOH	**Solution**	4	1211
Electric Properties of [(ZrO2)0.8(CeO2)0.2]0.9(CaO)0.1 Solid	**Solution**	7	2552
Cadmium Sulfide into Nanoporous Silicon by Sequential Chemical Deposition from	**Solution** Incorporation of	7	2448
Cu Dissolution from Si(111) into an SC-1 Process	**Solution**	4	L60
athode for Selective Dechlorination of 2,4-Dichlorophenoxyacetic Acid in Aqueous	**Solution** Pd-Loaded Carbon Felt as the C	11	3844
Electrochemical Deposition of Prussian Blue from a Single Ferricyanide	**Solution**	7	2231
Corrosion Protection of Untreated AA-2024-T3 in Chloride	**Solution** by a Chromate Conversion Coating Monitored with Raman Spectroscopy	7	2258
Direct Electrochemical Detection of C60 in	**Solution** by Steady-State Voltammetry at Microelectrodes	4	1227
icrobalance Study of the Dissolution Process of a Gold Electrode in Perchloric Acid	**Solution** Containing Chloride Ion An In Situ Electrochemical Quartz Crystal	5	1614
Adsorption of Metal Ions onto Hydrophilic Silicon Surfaces from Aqueous	**Solution**: Effect of pH	8	2841
The Electrochemical Behavior of p-Type (100) GaAs in Copper Sulfate	**Solution**. Influence of Surface Conditions	9	3075
ase-Shift Method for the Frumkin Adsorption Isotherms at the Pd/H2SO4 and KOH	**Solution** Interfaces The Ph	11	3794
Nonlinear Phenomena during the Reduction of Hydrogen Peroxide in Alkaline	**Solution** Involving Mass Transfer	11	3857
ependent Electrochromism of Nanocrystalline TiO2 Films in Propylene Carbonate	**Solution** of LiClO4 Time-D	6	1992

		Issue	Page
Evolution and Entry of Hydrogen into Iron during Cathodic Charging in Alkaline	**Solution** with Ethylenediaminetetraacetic Acid	4	1142
Characterization of 3 x 3 Matrix Arrays of	**Solution-Phase** Electrochromic Cells	4	L55
eir Effect on Ion Pair Dissociation and Conductivity of Lithium Salts in Nonaqueous	**Solutions** The Synthesis of a New Family of Boron-Based Anion Receptors	8	2813
The Passivity and Breakdown of Beryllium in Aqueous	**Solutions**	8	2799
nc Oxide and Zinc Hydroxychloride Films from Oxygenated Aqueous Zinc Chloride	**Solutions** Mechanistic Study of Cathodic Electrodeposition of Zi	3	864
Potentiostatic Oxide Formation on Lead Selenide Single Crystals in Alkaline	**Solutions**	8	2806
Sealing of Anodized Aluminum Alloys with Rare Earth Metal Salt	**Solutions**	8	2792
dance Spectroscopy of Copper Deposition on Silicon from Dilute Hydrofluoric Acid	**Solutions** Electrochemical Impe	1	352
The Electrochromic Behavior of Indium Tin Oxide in Propylene Carbonate	**Solutions**	7	2225
Study of the Hydrogen Evolution Reaction on Ni-Mo-P Electrodes in Alkaline	**Solutions**	7	2219
Constant Voltage Anodizing of Mg-Al Alloys in KOH-Al(OH)3	**Solutions**	1	190
The Mechanism of the Transpassive Dissolution of Chromium in Acidic Sulfate	**Solutions**	6	2043
The Nature of Oxide Films on Tungsten in Acidic and Alkaline	**Solutions**	8	2718
Negative Impedance of the Nafion Membrane Between Two Electrolyte	**Solutions**	8	2740
balance Studies of Poly(ortho-toluidine) Films Exposed to Aqueous Perchloric Acid	**Solutions** Electrochemical Quartz Crystal Micro	8	2640
Nucleation and Growth of Zinc from Chloride Concentrated	**Solutions**	12	4090
Appearing in the CeZrO4-CeZrO3.5 System and the Formation of Metastable Solid	**Solutions** Thermodynamic Behavior of Various Phases	4	1406
Behavior of Silver in Physiological	**Solutions**	5	1426
In Situ Investigation of the Electrochemical Reduction of Carbonate Electrolyte	**Solutions** at Graphite Electrodes	4	1081
A Study of Lithium Deposition-Dissolution Processes in a Few Selected Electrolyte	**Solutions** by Electrochemical Quartz Crystal Microbalance	8	2629
High-Temperature Wet Chemical Etching of Ta2O5 in NaOH-Based	**Solutions** for Fabricating Antiresonant Reflecting Optical Waveguides	3	1020
Electron Spin Resonance Study of the Electrochemical Reduction of Electrolyte	**Solutions** for Lithium Secondary Batteries	11	3757
Spectroscopy Ion Association and	**Solvation** Studies of LiClO4/Ethylene Carbonate Electrolyte by Raman and Infrared	10	3346
Chloroethylene Carbonate, a	**Solvent** for Lithium-Ion Cells, Evolving CO2 during Reduction	2	L27
Passivity and Breakdown of Carbon Steel in Organic	**Solvent** Mixtures of Propylene Carbonate and Dimethoxyethane	7	2396
Time-Resolved Mono-anion, Di-anion, and	**Solvent** Transfers into a Poly(vinylferrocene)-Modified Electrode	2	L24
High Anodic Stability of a New Electrolyte	**Solvent**: Unsymmetric Noncyclic Aliphatic Sulfone	4	L70
Sulfamides and Glymes as Aprotic	**Solvents** for Lithium Batteries	10	3500
Mass Transport in	**Sonovoltammetry** with Evidence of Hydrodynamic Modulation from Ultrasound	6	1994
A Study of Capillary Porous Structure and	**Sorption** Properties of Nafion Proton-Exchange Membranes Swollen in Water	8	2677
SiOF Film Deposition Using FSi(OC2H5)3 Gas in a Helicon Plasma	**Source**	7	2576
on the Texture of Chemical Vapor Deposited Tungsten Films by a WF6/H2/Ar Gas	**Source** Influence of Deposition Parameters	9	3235
fect Transistors Parasitic Resistance Considerations of Using Elevated	**Source/Drain** Technology for Deep Submicron Metal Oxide Semiconductor Field Ef	6	2131
Species on Diamond Deposition from Plasma Jets with Chlorobenzenes as Carbon	**Sources** Effect of Chlorine	8	2895
A Novel Statistical Metrology Framework for Identifying	**Sources** of Variation in Oxide Chemical Mechanical Polishing	3	1052
Anodization and	**Speciation** of Magnesium in Chloride-Rich Room Temperature Ionic Liquids	1	24
s Acidic Media. Mechanisms of Phase Transformations, Reactivity, and Effect of Bi	**Species** Synthesis of MnO2 Phases from LiMn2O4 in Aqueou	10	3392
isible Absorption Spectra Determination of Chemical	**Species** and Their Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of V	2	523
Evaporation of Oxygen-Containing	**Species** from Boron-Doped Silicon Melts	7	2548
Sources Effect of Chlorine	**Species** on Diamond Deposition from Plasma Jets with Chlorobenzenes as Carbon	8	2895
Estimation of Dissociation Parameters of Electrolytes at High Temperatures from	**Specific** Conductance Data	12	4107
r Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of Visible Absorption	**Spectra** Determination of Chemical Species and Thei	2	523
r Deposition Calculation of Gas	**Spectra** for Quantitative Fourier Transform Infrared Spectroscopy of Chemical Vapo	9	3212
n in Aqueous Electrolytes In Situ Real-Time Pt LIII-Edge X-Ray Absorption	**Spectra** of Carbon Monoxide Adsorbed on Platinum Particles Dispersed in High-Are	1	80
ourier Transform? Analysis of Electrochemical Noise by Power	**Spectral** Density Applied to Corrosion Studies. Maximum Entropy Method or Fast F	8	2780
	Spectrochemical Characterization of Benzotriazole on Copper	12	4045
by the Sacrificial Anode Method	**Spectroelectrochemical** Studies of Indium Hexacyanoferrate Electrodes Prepared	7	2334
Raman	**Spectroelectrochemistry** of a Lithium/Polymer Electrolyte Symmetric Cell	9	3034
Sublimation Studies of SiC by Using a Quadrupole Mass	**Spectrometer**	10	3556
the La0.9Sr0.1MnO3-x/Yttria-Stabilized Zirconia Interface by Secondary-Ion Mass	**Spectrometry** Active Sites Imaging for Oxygen Reduction at	9	3196
ms from Different Provenances Structural,	**Spectroscopic**, and Electrochemical Characterization of Boron-Doped Diamond Fil	5	L85
upling Electro-oxidative Polymerization and	**Spectroscopic** Characterization of Novel Amide Polymers Using Diphenylamine Co	8	2648
nyl Alcohol Composites Thermogravimetric/Mass and Infrared	**Spectroscopic** Properties and Humidity Sensitivity of Polyaniline Derivatives/Polyvi	10	3351
le-Based Gel Electrolytes for Li Polymer Batteries An Ionic Conductivity and	**Spectroscopic** Study of Ionic Transport Mechanism in Fire-Retardant Polyacrylonitr	3	881
ns In Situ X-Ray Absorption	**Spectroscopic** Study of Electrodeposited Nickel Oxide Films during Redox Reactio	4	1121
Class of 5 V Cathode Materials for Li Batteries. I. Electrochemical, Structural, and	**Spectroscopic** Studies LiMn2-xCuxO4 Spinels (0.1 < x < 0.5): A New	4	1238
Transport Property and Raman	**Spectroscopic** Studies of the Polymer Electrolyte System P(EO)n-NaTFSI	5	1586
-T3 in Chloride Solution by a Chromate Conversion Coating Monitored with Raman	**Spectroscopy** Corrosion Protection of Untreated AA-2024	7	2258
hromate Conversion Coating on Aluminum Alloy AA2024-T3 Probed by Vibrational	**Spectroscopy** Chemistry of a C	9	3083
Adsorption of Thiourea on Copper Electrodes Monitored by In Situ Infrared	**Spectroscopy**	10	3366
of the Role of Molybdenum in Passivation of Stainless Steels Using AC Impedance	**Spectroscopy** Examination	5	1462
Solvation Studies of LiClO4/Ethylene Carbonate Electrolyte by Raman and Infrared	**Spectroscopy** Ion Association and	10	3346
es at pH 5 and 9 Studied by X-Ray Photoelectron Spectroscopy and Ion Scattering	**Spectroscopy** The Passivity of Fe/Si Alloys in Aqueous Electrolyt	3	834
olution Characterized by In Situ Ultraviolet-Visible Ellipsometry and In Situ Infrared	**Spectroscopy** Surface Composition of n-GaAs Cathodes during Hydrogen	2	447
r Deposition in the Presence of Polyethylene Glycol. II. Electrochemical Impedance	**Spectroscopy** Coppe	10	3477
Acid-Base Properties of Passive Films on Aluminum. II. An X-Ray Photoelectron	**Spectroscopy** and X-Ray Absorption Near Edge Structure Study	3	829
e/Si Alloys in Aqueous Electrolytes at pH 5 and 9 Studied by X-Ray Photoelectron	**Spectroscopy** and Ion Scattering Spectroscopy The Passivity of F	3	834
on (100) Fe-18Cr-13Ni Single-Crystal Surfaces X-Ray Photoelectron	**Spectroscopy** and Scanning Tunneling Microscopy Study of Passive Films Formed	3	909
A New Inlet System for Differential Electrochemical Mass	**Spectroscopy** Applied to the Photocorrosion of p-InP(111) Single Crystals	2	576
Tribochemical Reactions of Silicon: An In Situ Infrared	**Spectroscopy** Characterization	7	2465
ns Electrochemical Impedance	**Spectroscopy** of Copper Deposition on Silicon from Dilute Hydrofluoric Acid Solutio	1	352
Calculation of Gas Spectra for Quantitative Fourier Transform Infrared	**Spectroscopy** of Chemical Vapor Deposition	9	3212
In Situ Raman	**Spectroscopy** of LixV2O5 in a Lithium Rechargeable Battery	3	847
Fast Optical	**Spectroscopy** of the Electrochemical Doping of Poly(3,4-ethylenedioxythiophene)	11	3810
Quantitative Evaluation of Precipitated Oxygen in Silicon by Infrared	**Spectroscopy**. Still an Open Problem	5	1715
es In Situ Infrared Reflection Absorption	**Spectroscopy** Studies of Sulfuric Acid Formation on Platinum and Palladium Surfac	2	487
Blocking Inhibitors in Cathodic Leveling. III. Electrochemical Impedance	**Spectroscopy** Study	5	1561
Deposition Temperature Dependence of Optical Gap and Coloration Efficiency	**Spectrum** in Electrochromic Tungsten Oxide Films	5	1729
acter Rounding of Print Bands Surface Finishing of High	**Speed** Print Bands. I. A Prototype Tool for Electrochemical Microfinishing and Char	9	3047
e-13Cr Stainless Steel Surface Finishing of High	**Speed** Print Bands. II. An Electrochemical Process for Microfinishing of Hardened F	9	3052
A New Synthetic Method to Prepare	**Spherical** Phosphors for Emissive Screen Applications	3	1017
Contamination Removal by Single-Wafer	**Spin** Cleaning with Repetitive Use of Ozonized Water and Dilute HF	9	3278
Lithium Secondary Batteries Electron	**Spin** Resonance Study of the Electrochemical Reduction of Electrolyte Solutions for	11	3757
Factors Affecting the Stabilization of Mn	**Spinel** Capacity upon Storing and Cycling at High Temperatures	8	2726
Preperation and Electrochemical Characterization of Overlithiated	**Spinel** LiMn2O4	4	1131
Mechanism of the Electrochemical Insertion of Lithium into LiMn2O4	**Spinels**	2	459
ctrochemical, Structural, and Spectroscopic Studies LiMn2-xCuxO4	**Spinels** (0.1 < x < 0.5): A New Class of 5 V Cathode Materials for Li Batteries. I. Ele	4	1238
asurements LiCuxMn2-xO4	**Spinels** (0.1 x 0.5): A New Class of Cathode Materials for Li Batteries. II. In Situ Me	10	3383
An Investigation of Capacity Fading of Manganese	**Spinels** Stored at Elevated Temperature	11	3704
Stability of p-GaInP2 in Aqueous Electrolytes Toward Photoelectrochemical Water	**Splitting** Electrochemical	10	3335
e of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Film Electrodes during Water	**Splitting** Reactions Stability and Photorespons	1	89
Dielectric Properties of Radio Frequency Magnetron	**Sputter** Deposited Zirconium Titanate-Based Thin Films	1	358
Comparison of the Semiconductive Properties of	**Sputter-Deposited** Iron Oxides with the Passive Film on Iron	2	378
Passivation of Cu by	**Sputter-Deposited** Ta and Reactively Sputter-Deposited Ta-Nitride Layers	9	3170
Passivation of Cu by Sputter-Deposited Ta and Reactively	**Sputter-Deposited** Ta-Nitride Layers	9	3170
s. I. Physical and Electrochemical Characterization	**Sputtered** Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction Electrocatalyst	10	3507
s. II. Electrochemical Stability and Proposed Mechanism	**Sputtered** Cobalt-Carbon-Nitrogen Thin Films as Oxygen Reduction Electrocatalyst	10	3513
per Diffusion	**Sputtered** Cr and Reactively Sputtered CrNx Serving as Barrier Layers Against Cop	12	4290

	Issue	Page
Sputtered Cr and Reactively **Sputtered** CrNx Serving as Barrier Layers Against Copper Diffusion	12	4290
ms. A Study of Microstructure, Morphology, and Stoichiometry of Radio-Frequency **Sputtered** Films Toward Efficient Electrochromic NiOx Fil	1	235
A Study of Rapid Photothermal Annealing of **Sputtered** Lead Lanthanum Zirconia Titanate Thin Films	12	4317
Effects of Thermal N2 Annealing on Passivation Capability of **Sputtered** Ta(-N) Layers Against Cu Oxidation	11	4029
Radio-Frequency Reactively **Sputtered** VOx Thin Films Deposited at Different Oxygen Flows	2	706
al Properties of SrBi2Ta2O9 Thin Films Deposited by Radio-Frequency Magnetron **Sputtering** Temperature Dependence of the Electric	4	1330
s of Amorphous Germanium-Tin Alloys Prepared by Radio-Frequency Magnetron **Sputtering** Thin Film	4	1303
Conduction Mechanism and Temperature-Dependent Current-Voltage in (Ba, **Sr)TiO3** Thin Films	8	2853
id-Oxide Fuel Cells **Sr-** and Ni-Doped LaCoO3 and LaFeO3 Perovskites. New Cathode Materials for Sol	9	3220
Protonic and Native Conduction in **Sr-Substituted** LaPO4 Studied by Thermoelectric Power Measurements	10	3313
Temperature Dependence of the Electrical Properties of **SrBi2Ta2O9** Thin Films Deposited by Radio-Frequency Magnetron Sputtering	4	1330
Ceramic Microstructure and Oxygen Permeability of **SrCo(Fe,M)O3-delta** (M = Cu or Cr) Perovskite Membranes	4	1363
In Situ Pulsed Deposition Studies of Ce(tmhd)4 on **SrS** Surfaces for Thin Film Electroluminescent Flat Panel Display Applications	12	4271
Dry Etching of **SrS** Thin Films	7	2461
urrent-Voltage Characteristics and Current-Induced Redox Behavior of Junctioned **SrTiO3** pO2-Dependent Nonohmic C	4	1165
nal Diffusion-Limited Regime Linear **Stability** Analysis of Unsteady Galvanostatic Electrodeposition in the Two-Dimensio	8	2016
m Electrodes during Water Splitting Reactions **Stability** and Photoresponse of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Fil	1	89
bon-Nitrogen Thin Films as Oxygen Reduction Electrocatalysts. II. Electrochemical **Stability** and Proposed Mechanism Sputtered Cobalt-Car	10	3513
Chemical Vapor Deposition **Stability** Diagram for the BiI3-O2 System	12	4234
A New Liquid Precursor with Improved Thermal **Stability** for Chemical Vapor Deposition of Copper	1	362
High Anodic **Stability** of a New Electrolyte Solvent: Unsymmetric Noncyclic Aliphatic Sulfone	4	L70
Thermodynamic **Stability** of Chemically Delithiated Li(LixMn2-x)O4	2	569
tal Thickness The Thermal **Stability** of CoSi2 on Polycrystalline Silicon. The Effect of Silicon Grain Size and Me	4	1384
The Effect of Crevice-Opening Dimension on the **Stability** of Crevice Corrosion for Nickel in Sulfuric Acid	7	2276
The Thermal **Stability** of Lithium Polymer Batteries	7	2327
Splitting Electrochemical **Stability** of p-GaInP2 in Aqueous Electrolytes Toward Photoelectrochemical Water	10	3335
Factors Affecting the **Stabilization** of Mn Spinel Capacity upon Storing and Cycling at High Temperatures	8	2726
um Manganite Composite Electrodes The Role of 8 mol % Yttria **Stabilized** Zirconia in the Improvement of Electrochemical Performance of Lanthan	6	1932
Morphological Changes at the Interface of the Nickel-Yttria **Stabilized** Zirconia Point Electrode	7	2244
2 Gas Sensor Using a Combined Electrolyte of Sodium Ion Conducting Glass and **Stabilized** Zirconia Influence of Humidity on a Potentiometric CO	9	2981
The Development of a **Stable** Citrate Electrolyte for the Electrodeposition of Copper-Nickel Alloys	3	875
-olato-1-benzenesulfonato(2-)-O,O'] borate(1-), a New Anodically and Cathodically **Stable** Salt for Electrolytes of Lithium-Ion Cells Lithium Bis[5-fluoro-2	2	L17
Deposition Highly **Stable** Vanadium Oxide Cathodes Prepared by Plasma-Enhanced Chemical Vapor	6	1889
erature Barrier Electrode Technology for High Density Ferroelectric Memories with **Stacked** Capacitor Structure High Temp	7	2563
Point Defect Dynamics and the Oxidation-Induced **Stacking-Fault** Ring in Czochralski-Grown Silicon Crystals	1	302
Modeling of Solid Oxide Heat Exchanger Integrated **Stacks** and Simulation at High Fuel Utilization	11	3995
First-Principles Evidence for **Stage** Ordering in LixCoO2	6	2149
Improvement of Pitting Corrosion Resistance of Type 304 **Stainless** Steel by Modification of Passive Film with Ultraviolet Light Irradiation	5	L79
Examination of the Role of Molybdenum in Passivation of **Stainless** Steels Using AC Impedance Spectroscopy	5	1462
he Influence of Sulfate-Reducing Bacteria on the Passivity of Type 317L Austenitic **Stainless** Steel T	6	1914
ical Microscopy Elucidation of a Trigger Mechanism for Pitting Corrosion of **Stainless** Steels Using Submicron Resolution Scanning Electrochemical and Photo	8	2664
rint Bands. II. An Electrochemical Process for Microfinishing of Hardened Fe-13Cr **Stainless** Steel Surface Finishing of High Speed P	9	3052
Semiconducting Properties of Passive Films Formed on **Stainless** Steels. Influence of the Alloying Elements	11	3821
Studies on **Stannic** Oxide as an Anode Material for Lithium-Ion Batteries	1	59
amaged Si:SiO2 Surfaces Interface **State** Capture Cross Section Measurements on Vacuum Annealed and Radiation D	2	683
enetration into Gate Oxide Surface **State** Generation of Mo Gate Metal Oxide Semiconductor Devices Caused by Mo P	4	1297
Characterization of the Passive **State** on Zinc	9	3141
Self-Discharge of LiMn2O4/C Li-Ion Cells in Their Discharged **State**. Understanding by Means of Three-Electrode Measurements	1	194
An Investigation of Faradaic Admittance for Electrode Processes Involving n **State** Variables Besides Electrode Potential	2	517
Surface **States** and Photovoltaic Effects in CdSe Quantum Dot Films	5	1748
Interface **States** Distribution in Electrical Stressed Oxynitrided Gate-Oxide	7	2489
ical Mechanical Polishing A Novel **Statistical** Metrology Framework for Identifying Sources of Variation in Oxide Chem	3	1052
nce of Gas Mixtures **Steady-State** and Transient Behavior of Thick-Film Tin Oxide Sensors in the Prese	5	1772
Magnetic Field Effects on Nickel Electrodeposition. II. A **Steady-State** and Dynamic Electrochemical Study	12	4135
Steady-State Modeling of a Parallel-Plate Electrochemical Fluorination Reactor	10	3521
Steady-State Multiplicity Phenomena in the Deposition of Silicon Carbide	11	3908
Direct Electrochemical Detection of C60 in Solution by **Steady-State** Voltammetry at Microelectrodes	4	1227
ing High Temperature Oxidation on the Corrosion Resistance of Ferritic Chromium **Steel** The Effect of Nonstoichiometry of Surface Oxides Formed dur	7	2236
ce of Sulfate-Reducing Bacteria on the Passivity of Type 317L Austenitic Stainless **Steel** The Influen	6	1914
s. II. An Electrochemical Process for Microfinishing of Hardened Fe-13Cr Stainless **Steel** Surface Finishing of High Speed Print Band	9	3052
Improvement of Pitting Corrosion Resistance of Type 304 Stainless **Steel** by Modification of Passive Film with Ultraviolet Light Irradiation	5	L79
n Acoustic Emission Signals and Hydrogen Permeation in High Strength, Low Alloy **Steel** Cracking in Wet H2S Correlation Betwee	6	1968
Passivity and Breakdown of Carbon **Steel** in Organic Solvent Mixtures of Propylene Carbonate and Dimethoxyethane	7	2396
Semiconducting Properties of Passive Films Formed on Stainless **Steels**. Influence of the Alloying Elements	11	3821
Examination of the Role of Molybdenum in Passivation of Stainless **Steels** Using AC Impedance Spectroscopy	5	1462
scopy Elucidation of a Trigger Mechanism for Pitting Corrosion of Stainless **Steels** Using Submicron Resolution Scanning Electrochemical and Photoelectroche	8	2664
polymerization of Polypyrrole Nanostructures on Highly Ordered Pyrolytic Graphite **Step** and Pit Defects Template Electro	10	3320
Quantitative Evaluation of Precipitated Oxygen in Silicon by Infrared Spectroscopy. **Still** an Open Problem	5	1715
Processes in Ultrathin Buried Oxide Synthesis **Stimulated** by Low Dose Ion Implantation	8	2964
y Grown n-Type Al0.3Ga0.7As Effects of **Stoichiometry** and Te Concentration on the Deep Levels in Liquid-Phase Epitaxiall	8	2905
rd Efficient Electrochromic NiOx Films. A Study of Microstructure, Morphology, and **Stoichiometry** of Radio-Frequency Sputtered Films Towa	1	235
Elastic Bending of Semiconductor Wafer Revisited and Comments on **Stoney's** Equation	10	3621
The Realization of Silicon-on-Insulator Utilizing Trench-before-Bond and Polish **Stop** Technology	5	1738
he Effect of Annealing on the Discharge Characteristics of a Zr-V-Mn-Ni Hydrogen **Storage** Alloy T	6	1953
Studies on Electroless Cobalt Coatings for Microencapsulation of Hydrogen **Storage** Alloys	9	3000
The Effect of the Lead Alloy Hardening Process in Electric Vehicle **Storage** Batteries on Corrosion Resistance	9	3183
Hydrogen Exchange Reaction on Hydrogen-Terminated (100) Si Surface during **Storage** in Water	2	659
Improved Porous Mixture of Molybdenum Nitride and Tantalum Oxide as a Charge **Storage** Material	4	L61
An Investigation of Capacity Fading of Manganese Spinels **Stored** at Elevated Temperature	11	3704
Factors Affecting the Stabilization of Mn Spinel Capacity upon **Storing** and Cycling at High Temperatures	8	2726
Modeling of Anodic Current Transients Resulting from Oxide Rupture of Plastically **Strained** Beta + Alpha Titanium	6	1829
imensional Model of Chemical Vapor Infiltration with Radio-Frequency Heating. II. **Strategies** to Achieve Complete Densification A Two-D	10	3569
Correlation Between Acoustic Emission Signals and Hydrogen Permeation in High **Strength**, Low Alloy Steel Cracking in Wet H2S	6	1968
Experimental Study of the Degradation of Mechanical **Strength** of Silicon Wafers Caused by Large Scale Integration Processes	9	3160
Encapsulated Local Oxidation of Silicon. Cavity Dimension Effects on Mechanical **Stress** and Gate Oxide Integrity Optimization of Polysilicon	5	1653
opography and Computer Simulation Gravitational **Stress-Induced** Dislocations in Large-Diameter Silicon Wafers Studied by X-Ray T	7	2523
Boron Diffusion in Compressively **Stressed** Float Zone-Silicon Induced by Si3N4 Films	1	258
Interface States Distribution in Electrical **Stressed** Oxynitrided Gate-Oxide	7	2489
The Search for Cathode and Anode Traps in High-Voltage **Stressed** Silicon Oxides	4	1292
Active/Passive Behavior of Copper in **Strong** Sulfuric Acid	2	601
Vapor-Phase Processes and Their Electrochemical Properties. II. Effects of Doping **Strontium** to LaMnO3 on the Electrode Properties Preparation of Perovskite	6	1999
x < 0.5): A New Class of 5 V Cathode Materials for Li Batteries. I. Electrochemical, **Structural**, and Spectroscopic Studies LiMn2-xCuxO4 Spinels (0.1 <	4	1238
Structural and Optical Characterization of Porous 3C-SiC	7	2241
re by Plasma-Enhanced Chemical Vapor Deposition Relationship Between **Structural** and Optical Properties in Polycrystalline Silicon Films Prepared at Low T	10	3615
Study of the **Structural** Change Due to Heat-Treatment in High Resistivity Electroless NiPC Film	7	2419
n Using Synchrotron Radiation Inner-Shell Electron Excitation Effect on the **Structural** Change in Amorphous and Crystalline GaAs with Brilliant X-Ray Irradiati	9	3063
ng Synchrotron X-Ray Diffraction Techniques **Structural** Evolution of LixMn2O4 in Lithium-Ion Battery Cells Measured In Situ Usi	2	465
ilms by Microwave Plasma Chemical Vapor Deposition **Structural** Investigation of the Bias-Enhanced Nucleation and Growth of Diamond F	6	2095

	Issue	Page
amond Films from Different Provenances		
ctrode Technology for High Density Ferroelectric Memories with Stacked Capacitor		
e of Lithium Cobalt Nickel Oxide Changes in		
in Water A Study of Capillary Porous		
Synthesis of LiMnO2 with alpha-NaMnO2-Type		
Tuning the Position of the Redox Couples in Materials with NASICON		
A 10% Cu(In,Ga)Se2 Based Photovoltaic		
Characterization of Flow-Induced Compositional		
The Effect of Processing Conditions on Crystal Orientation and		
n The		
Irregular Surface and Porous		
Production of Lead-Acid Batteries Crystal		
inum. II. An X-Ray Photoelectron Spectroscopy and X-Ray Absorption Near Edge		
okite as a Li Insertion Cathode. Comparison of a Large Tunnel Framework "MnO2"		
mparison of a Large Tunnel Framework "MnO2" Structure with Its Related Layered		
lled Anodic Oxidation for High Precision Etch Depth in AlGaAs III-V Semiconductor		
Electrical Characterization of 6H-SiC Metal Oxide Semiconductor		
In Situ Raman Studies of Graphite Surface		
Self-Organized Formation of Hexagonal Pore		
Effect of Aging on Yttria-Stabilized Zirconia. III. A Study of the Effect of Local		
Sensors for Detecting		
rk Function and Catalytic Activity Measurements of an IrO2 Film Deposited on YSZ		
A Contactless Method for the Directed Formation of		
ic Resistance Considerations of Using Elevated Source/Drain Technology for Deep		
Elucidation of a Trigger Mechanism for Pitting Corrosion of Stainless Steels Using		
10% Cu(In,Ga)Se2 Based Photovoltaic Structure Formed by Electrodeposition and		
the Position of the Redox Couples in Materials with NASICON Structure by Anionic		
perimental Parameters on Void Formation in the Growth of 3C-SiC Thin Film on Si		
Pressure Chemical Vapor Deposition Using Si(OC2H5)4 and O3 Effects of		
Analysis of Fuel Utilization Performance of Round		
Optimized Diode Analysis of Electrical Silicon		
Wet Chemical Etching for V-grooves into InP		
Growth of III-Nitrides on ZnO, LiGaO2, and LiAlO2		
Recombination Centers Created by Ar+-Ion Implantation into SIMOX		
terization of Eu:Y2O3 Thin-Film Phosphors on Silicon and Diamond-Coated Silicon		
ovel Method for the Formation of Large-Grained, Silicon Thin Films on Amorphous		
Estimation of Front Velocity in Electrodeposition onto Highly Resistive		
py Electrochemical Behavior and Surface Morphologic Changes of Copper		
Adhesion Mechanism of Electroless Copper Film Formed on Ceramic		
gh a Pd Sheet Electrode Effect of Pd Black Deposits on		
duction of the Irreversible Capacity in Hard-Carbon Anode Materials Prepared from		
Studies of Lithium Insertion in Ballmilled		
eries Crystal Structure of Tetrabasic Lead		
Electrodeposition of Iron-Group Metals and Binary Alloys from		
Atmospheric Corrosion of Copper in the Presence of Acid Ammonium		
tive Active Material Capacity in Lead- Acid Cells Through Control of the Basic Lead		
Reaction-Plane Model for the Open-Circuit Potential of Copper in Aerated Copper		
The Mechanism of the Transpassive Dissolution of Chromium in Acidic		
The Electrochemical Behavior of p-Type (100) GaAs in Copper		
The Influence of		
Utilization of Hydrogen		
Incorporation of Cadmium		
Preparation of Indium Hydroxy		
Electrochemical Identification of the Hydrogen		
Methanol Tolerant Oxygen Reduction Catalysts Based on Transition Metal		
igh Anodic Stability of a New Electrolyte Solvent: Unsymmetric Noncyclic Aliphatic		
In Situ Infrared Reflection Absorption Spectroscopy Studies of		
Active/Passive Behavior of Copper in Strong		
ct of Crevice-Opening Dimension on the Stability of Crevice Corrosion for Nickel in		
canning Tunneling Microscopy Images of InP(001), (111)A, and (111)B Surfaces in		
Keggin-Type Heteropolyacids as Electrode Materials for Electrochemical		
Analysis of the		
The		
Pitting in Aluminum Thin Films.		
Influence of Residual Point Defect		
of the Electrocatalyst Heat-Treated Iron(III) Tetramethoxyphenyl Porphyrin		
O2 Reduction on an Ink-Type Rotating Disk Electrode Using Pt		
Fuel Cells Analyses of Self-Humidification and		
ality by Crystal Originated Particle Delineation and the Impact on the Silicon Wafer		
Hydrophobicity of a Hydrochloric-Treated GaAs		
w Pressure Irregular		
ls: The Correlation of the First-Cycle Charge Loss with the Brunauer-Emmett-Teller		
Modification of the Lithium Metal		
robe Measurements Analysis of		
ansfer-Limited Current. Correction for Finite Schmidt Number and Determination of		
tteries The Correlation Between Charge/Discharge Rates and Morphology,		
mperature Water, and Water/CO2 Mixtures		
Low Thermal Budget In Situ		
by In Situ Ultraviolet-Visible Ellipsometry and In Situ Infrared Spectroscopy		
rochemical Behavior of p-Type (100) GaAs in Copper Sulfate Solution. Influence of		
Hydrogen Exchange Reaction on Hydrogen-Terminated (100) Si		
Change in Microroughness of a Silicon		
In Situ Determination of the Composition of		
al Microfinishing and Character Rounding of Print Bands		
crofinishing of Hardened Fe-13Cr Stainless Steel		
Scanning Force Microscopy Investigation of		
Effect of		
mical Vapor Deposition Effect of Fluorine on		
se Measurement Interferometric Microscopy Electrochemical Behavior and		
tro-oxidation of Methanol, Ethanol, 1,2-Ethanediol, and D-Glucose over a Pt-Ruads		
tance of Ferritic Chromium Steel The Effect of Nonstoichiometry of		
Structural, Spectroscopic, and Electrochemical Characterization of Boron-Doped Di	5	L85
Structure High Temperature Barrier Ele	7	2563
Structure and Cathode Performance with Composition and Preparation Temperatur	3	730
Structure and Electrochemistry of Li2CrxMn2-xO4 for 1.0<x<1.5	3	851
Structure and Sorption Properties of Nafion Proton-Exchange Membranes Swollen	8	2677
Structure by a Mixed-Alkaline Hydrothermal Reaction	4	L49
Structure by Anionic Substitution	5	1518
Structure Formed by Electrodeposition and Subsequent Thermal Processing	10	3613
Structure in Electrodeposited NiFe Composition-Modulated Alloys	8	2827
Structure in ZnS:Mn Thin Films	1	226
Structure of a 3 V LixMnO2 Cathode and Its Change upon Electrochemical Lithiatio	10	3440
Structure of SiO2 Films Deposited at Low Temperature and Low Pressure	7	2569
Structure of Tetrabasic Lead Sulfate (4PbO.PbSO4). An Intermediate Phase in the	2	528
Structure Study Acid-Base Properties of Passive Films on Alum	3	829
Structure with Its Related Layered Structures Todor	11	3746
Structures Todorokite as a Li Insertion Cathode. Co	11	3746
Structures Contro	3	1076
Structures at High Temperature	1	299
Structures during Lithium Electrochemical Intercalation	3	765
Structures in Anodic Alumina	11	3735
Structures on Conductivity	5	1550
Sub-ppm NO2 Using Photochemically Produced Amorphous Tungsten Oxide	12	4219
Subjected to In Situ Electrochemical Promotion Wo	3	905
Sublimation Studies of SiC by Using a Quadrupole Mass Spectrometer	10	3556
Submicrometer Copper Wires	3	L45
Submicron Metal Oxide Semiconductor Field Effect Transistors Parasit	6	2131
Submicron Resolution Scanning Electrochemical and Photoelectrochemical Micros	8	2664
Subparabolic Oxidation Behavior of Silicon Carbide at 1300 C	8	2876
Subsequent Thermal Processing A	10	3613
Substitution Tuning	5	1518
Substrate Effects of Ex	1	292
Substrate Effects on Hardness and Polishing of SiO2 Thin Films	5	1790
Substrate on the Growth Characteristics of Silicon Oxide Films Deposited by Atmos	8	2847
Substrate, Planar Solid Oxide Fuel Cells	3	931
Substrate Properties	6	2107
Substrates	8	2931
Substrates	7	2581
Substrates	5	1795
Substrates Growth and Charac	10	3456
Substrates N	11	3963
Substrates	1	165
Substrates in the Presence of 2,5-Dimercapto-1,3,4-thiadiazole. In Situ EQCM and	7	2369
Substrates Using ZnO Thin Film as an Intermediate Layer	5	1430
Successive Hydrogenation of 4-Methylstyrene with Active Hydrogen Passing Throu	1	138
Sucrose for Li-Ion Batteries Re	6	1977
Sugar Carbons	1	62
Sulfamides and Glymes as Aprotic Solvents for Lithium Batteries	10	3500
Sulfate (4PbO.PbSO4). An Intermediate Phase in the Production of Lead-Acid Batt	2	528
Sulfate Baths. I. Experimental Study	3	981
Sulfate Particles	3	946
Sulfate Precursor Optimization of the Posi	10	3358
Sulfate Solution A	2	590
Sulfate Solutions	6	2043
Sulfate Solution. Influence of Surface Conditions	9	3075
Sulfate-Reducing Bacteria on the Passivity of Type 317L Austenitic Stainless Steel	6	1914
Sulfide in an Intermediate-Temperature Ceria-Based Solid Oxide Fuel Cell	5	1449
Sulfide into Nanoporous Silicon by Sequential Chemical Deposition from Solution	7	2448
Sulfide Inx(OH)ySz Thin Films by Chemical Bath Deposition	8	2775
Sulfide System Using a pH2S (glass/Ag, Ag2S) Electrode	1	77
Sulfides	10	3463
Sulfone H	4	L70
Sulfuric Acid Formation on Platinum and Palladium Surfaces	2	487
Sulfuric Acid	2	601
Sulfuric Acid The Effe	7	2276
Sulfuric Acid Solution Atomically Resolved S	9	3090
Super Dense LiC2 as a High Capacity Li Intercalation Anode	7	2377
Supercapacitors	3	737
Superior Water Blocking Ability of Electron Cyclotron Resonance-Plasma SiO2 Film	4	1338
Superiority of Asymmetric Alkyl Methyl Carbonates	1	L1
Supersaturation and Effects of Dichromate Ions	8	2834
Supersaturation on the Formation of Grown-In Oxide Precipitate Nuclei in CZ-Si	5	L75
Supported on High-Area Carbon as an Electrocatalyst for Oxygen Reduction. I. Ch	10	3493
Supported on High-Area Carbons	11	3713
Suppression of Gas Crossover in Pt-Dispersed Polymer Electrolyte Membranes for	4	1137
Surface Characterization of Crystal Qu	1	275
Surface Analyzed by Contact Angle Measurement	4	1381
Surface and Interface Roughness of Ultrathin Nitric Oxide Oxynitride Gate Dielectric	1	L13
Surface and Porous Structure of SiO2 Films Deposited at Low Temperature and Lo	7	2569
Surface Area Graphites for Lithium-Ion Cel	2	428
Surface by Nonionic Polyether Surfactants: Quartz Crystal Microbalance Studies	7	2340
Surface Carbon Contamination on Phosphated Zinc Surfaces by Scanning Kelvin P	3	L39
Surface Charge Distribution Current Distribution on a Rotating Disk Electrod	6	1940
Surface Chemistry, and Performance of Li Electrodes and the Connection to Cycle	5	1421
Surface Cleaning and Carbonaceous Film Removal Using High Pressure, High Te	1	284
Surface Cleaning for Selective Silicon Epitaxy	10	3602
Surface Composition of n-GaAs Cathodes during Hydrogen Evolution Characterize	2	447
Surface Conditions The Elect	9	3075
Surface during Storage in Water	2	659
Surface during In Situ Cleaning Using HF and HCl Gases	12	4264
Surface Films Formed on Fe-Cr Alloys	6	1922
Surface Finishing of High Speed Print Bands. I. A Prototype Tool for Electrochemic	9	3047
Surface Finishing of High Speed Print Bands. II. An Electrochemical Process for M i	9	3052
Surface Forces at the Tungsten Oxide/Lithium Borate Interface	2	669
Surface Iron on Photoconductivity Carrier Recombination Lifetime of p-Type Silicon	5	1724
Surface Morphology in Selective Epitaxial TiSi2 Growth by Plasma-Enhanced Che	5	1640
Surface Morphologic Changes of Copper Substrates in the Presence of 2,5-Dimerc	7	2369
Surface Optimized for Oxidation of Methanol Deposition of Ru Adatoms on	12	4182
Surface Oxides Formed during High Temperature Oxidation on the Corrosion Resis	7	2236

		Issue	Page
Fast-Feedback Iron Contamination Monitoring Using	**Surface** Photovoltage Measurements	2	701
Denuded Zone Thickness from	**Surface** Photovoltage Measurements. Comparison with Microscopy Techniques	5	1632
riented Czochralski-Silicon	**Surface** Pits Observed on SiO2 Thermally Grown at High Temperatures on (111)-O	6	2143
Ultraclean Si/Si Interface Formation by	**Surface** Preparation and Direct Bonding in Ultrahigh Vacuum	5	1645
smas	**Surface** Roughness of Reactive Ion Etched 4H-SiC in SF6/O2 and CHF3/H2/O2 Pla	4	L58
Detection of Metallic Contaminants on Silicon by	**Surface** Sensitive Minority Carrier Lifetime Measurements	7	2602
by Mo Penetration into Gate Oxide	**Surface** State Generation of Mo Gate Metal Oxide Semiconductor Devices Caused	4	1297
In Situ Raman Studies of Graphite	**Surface** States and Photovoltaic Effects in CdSe Quantum Dot Films	5	1748
ulfide	**Surface** Structures during Lithium Electrochemical Intercalation	3	765
In Situ and Ex Situ Photoluminescent Emissions from Porous Silicon. Evidence for	**Surface** Studies of CuxCo3-xO4 Electrodes for the Electrocatalysis of Oxygen Evol	7	2320
Microscopy Study of Passive Films Formed on (100) Fe-18Cr-13Ni Single-Crystal	**Surface-Bound** Emitters On the Correlation of Aqueous and Nonaqueous	9	3284
oss Section Measurements on Vacuum Annealed and Radiation Damaged Si:SiO2	**Surfaces** X-Ray Photoelectron Spectroscopy and Scanning Tunneling	3	909
rption Spectroscopy Studies of Sulfuric Acid Formation on Platinum and Palladium	**Surfaces** Interface State Capture Cr	2	683
Analysis of Surface Carbon Contamination on Phosphated Zinc	**Surfaces** In Situ Infrared Reflection Abso	2	487
In Situ Pulsed Deposition Studies of Ce(tmhd)4 on SrS	**Surfaces** by Scanning Kelvin Probe Measurements	3	L39
Adsorption of Metal Ions onto Hydrophilic Silicon	**Surfaces** for Thin Film Electroluminescent Flat Panel Display Applications	12	4271
Resolved Scanning Tunneling Microscopy Images of InP(001), (111)A, and (111)B	**Surfaces** from Aqueous Solution: Effect of pH	8	2841
The Reaction of Clean Li	**Surfaces** in Sulfuric Acid Solution Atomically	9	3090
Direct Electron Transfer for Hemoglobin in	**Surfaces** with Small Molecules in Ultrahigh Vacuum. II. Water	1	159
Modification of the Lithium Metal Surface by Nonionic Polyether	**Surfactant** Films Cast on Carbon Electrodes	2	533
Chemical Sensors with Catalytic Metal Gates.	**Surfactants**: Quartz Crystal Microbalance Studies	7	2340
Porous Structure and Sorption Properties of Nafion Proton-Exchange Membranes	**Switching** Behavior and Kinetic Phase Transitions	10	3401
Raman Spectroelectrochemistry of a Lithium/Polymer Electrolyte	**Swollen** in Water A Study of Capillary	8	2677
l Change in Amorphous and Crystalline GaAs with Brilliant X-Ray Irradiation Using	**Symmetric** Cell	9	3034
ructural Evolution of LixMn2O4 in Lithium-Ion Battery Cells Measured In Situ Using	**Synchrotron** Radiation Inner-Shell Electron Excitation Effect on the Structur	9	3063
Low Temperature	**Synchrotron** X-Ray Diffraction Techniques St	2	466
loy Films Pulsed Electrodeposition	**Synthesis** and Electrode Properties of Li4Mn5O12	4	L53
Lithium Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. I.	**Synthesis** and Hydrogen Absorption Properties of Nanostructured Palladium-Iron Al	10	3339
	Synthesis and Characterization of Thin Films and Bulk Phases	12	4148
	Synthesis and Properties of Mixed Lanthanide Chromite Perovskites	12	4282
ssociation and Conductivity of Lithium Salts in Nonaqueous Solutions The	**Synthesis** of a New Family of Boron-Based Anion Receptors and the Study of Their	8	2813
othermal Reaction	**Synthesis** of LiMnO2 with alpha-NaMnO2-Type Structure by a Mixed-Alkaline Hydr	4	L49
	Synthesis of LiCoO2 by Decomposition and Intercalation of Hydroxides	3	887
f Phase Transformations, Reactivity, and Effect of Bi Species	**Synthesis** of MnO2 Phases from LiMn2O4 in Aqueous Acidic Media: Mechanisms o	10	3392
Electrochemical	**Synthesis** of Polyindole and Its Evaluation for Rechargeable Battery Applications	3	999
on Dioxide and Nitrite Ions with Various Metal Catalysts Electrochemical	**Synthesis** of Urea at Gas-Diffusion Electrodes. III. Simultaneous Reduction of Carb	2	595
on Dioxide and Nitrate Ions with Various Metal Catalysts Electrochemical	**Synthesis** of Urea at Gas-Diffusion Electrodes. IV. Simultaneous Reduction of Carb	7	2348
Processes in Ultrathin Buried Oxide	**Synthesis** Stimulated by Low Dose Ion Implantation	8	2984
de Materials Characterization of Layered Lithium Nickel Manganese Oxides	**Synthesized** by a Novel Oxidative Coprecipitation Method and Their Electrochemic	4	1113
Low-Temperature	**Synthesized** LiV3O8 as a Cathode Material for Rechargeable Lithium Batteries	9	3057
rgeable Lithium-Ion Batteries Charge-Discharge Properties of Composite of	**Synthetic** Graphite and Poly(3-n-hexylthiophene) as an Anode Active Material in Re	5	1415
s A New	**Synthetic** Method to Prepare Spherical Phosphors for Emissive Screen Applicatio n	3	1017

— T —

Barrier Properties of Very Thin	**Ta** and TaN Layers Against Copper Diffusion	7	2538
Passivation of Cu by Sputter-Deposited	**Ta** and Reactively Sputter-Deposited Ta-Nitride Layers	9	3170
Effects of Thermal N2 Annealing on Passivation Capability of Sputtered	**Ta(-N)** Layers Against Cu Oxidation	11	4029
thanol-Addition-Enhanced, Chemical Vapor Deposited Tantalum Oxide Films from	**Ta(OC2H5)5** and Oxygen Precursors E	9	3247
Passivation of Cu by Sputter-Deposited Ta and Reactively Sputter-Deposited	**Ta-Nitride** Layers	9	3170
Mechanistic Aspects of Phenol Electrochemical Degradation by Oxidation on a	**Ta/PbO2** Anode	10	3427
Ultrathin	**Ta2O5** Film Capacitor with Ru Bottom Electrode	8	2961
veguides High-Temperature Wet Chemical Etching of	**Ta2O5** in NaOH-Based Solutions for Fabricating Antiresonant Reflecting Optical Wa	3	1020
and Y2O3-Stabilized ZrO2 Electrolyte. II. The Rates of Electrochemical Reactions	**Taking** Place in Parallel Electrochemical Oxidation in a CH4-H2O System at	9	3117
Barrier Properties of Very Thin Ta and	**TaN** Layers Against Copper Diffusion	7	2538
Improved Porous Mixture of Molybdenum Nitride and	**Tantalum** Oxide as a Charge Storage Material	4	L61
Ethanol-Addition-Enhanced, Chemical Vapor Deposited	**Tantalum** Oxide Films from Ta(OC2H5)5 and Oxygen Precursors	9	3247
3Ga0.7As Effects of Stoichiometry and	**Te** Concentration on the Deep Levels in Liquid-Phase Epitaxially Grown n-Type Al0.	8	2905
he Realization of Silicon-on-Insulator Utilizing Trench-before-Bond and Polish Stop	**Technology** T	5	1738
Influence of Overpolish Time on the Performance of W Damascene	**Technology**	4	1285
vel Nanolithographic Concept Using Crack-Assisted Patterning and Self-Alignment	**Technology** A No	6	2120
rs Parasitic Resistance Considerations of Using Elevated Source/Drain	**Technology** for Deep Submicron Metal Oxide Semiconductor Field Effect Transisto	6	2131
ure High Temperature Barrier Electrode	**Technology** for High Density Ferroelectric Memories with Stacked Capacitor Struct	7	2563
nsertion Capacity in Hard-Carbon Anode Materials with Increasing Heat-Treatment	**Temperature** On the Reduction of Lithium I	7	2252
An Investigation of Capacity Fading of Manganese Spinels Stored at Elevated	**Temperature**	11	3704
Oxygen Vacancies in SiO2 Layers on Si Produced at High	**Temperature**	9	3157
lectrical Characterization of 6H-SiC Metal Oxide Semiconductor Structures at High	**Temperature** E	1	299
Metastable Pitting and the Critical Pitting	**Temperature**	8	2622
Irregular Surface and Porous Structure of SiO2 Films Deposited at Low	**Temperature** and Low Pressure	7	2569
with Stacked Capacitor Structure High	**Temperature** Barrier Electrode Technology for High Density Ferroelectric Memories	7	2563
n Structural and Optical Properties in Polycrystalline Silicon Films Prepared at Low	**Temperature** by Plasma-Enhanced Chemical Vapor Deposition Relationship	10	3615
Light Irradiation Low	**Temperature** Copper Etching Using an Inductively Coupled Plasma with Ultraviolet	3	L37
ode	**Temperature** Dependence of the Oxygen Evolution Reaction on the Pb/PbO2 Electr	1	70
posited by Radio-Frequency Magnetron Sputtering	**Temperature** Dependence of the Electrical Properties of SrBi2Ta2O9 Thin Films De	4	1330
ctrochromic Tungsten Oxide Films Deposition	**Temperature** Dependence of Optical Gap and Coloration Efficiency Spectrum in Ele	5	1729
	Temperature Dependence of Carrier Recombination Lifetime in Si Wafers	9	3265
A Novel Method of CO2 Capture from High	**Temperature** Gases	4	1344
Anodization and Speciation of Magnesium in Chloride-Rich Room	**Temperature** Ionic Liquids	1	24
allium in the Basic Aluminum Chloride-1-methyl-3-ethylimidazolium Chloride Room	**Temperature** Molten Salt Electrochemistry of Th	4	1196
Changes in Structure and Cathode Performance with Composition and Preparation	**Temperature** of Lithium Cobalt Nickel Oxide	3	730
Effect of	**Temperature** on the Voltammetric Behavior of Poly-o-toluidine	10	3530
Room	**Temperature** Operating Solid-State Sensor for Chlorine Gas	7	2445
The Effect of Nonstoichiometry of Surface Oxides Formed during High	**Temperature** Oxidation on the Corrosion Resistance of Ferritic Chromium Steel	7	2236
High	**Temperature** Reactive Ion Etching of Indium-Tin Oxide with HBr and CH4 Mixtures	12	4313
Low	**Temperature** Silicon Wafer-to-Wafer Bonding with Nickel Silicide	4	1360
er Porous Silicon A Low	**Temperature** Silicon-on-Insulator Fabrication Process Using Si MBE on Double-Lay	5	1668
ctor. I. Doped SmCoO3 as a New Cathode Material Intermediate	**Temperature** Solid Oxide Fuel Cells Using a New LaGaO3 Based Oxide Ion Condu	9	3177
Low	**Temperature** Synthesis and Electrode Properties of Li4Mn5O12	4	L53
Surface Cleaning and Carbonaceous Film Removal Using High Pressure, High	**Temperature** Water, and Water/CO2 Mixtures	1	284
Conduction Mechanism and	**Temperature-Dependent** Current-Voltage in (Ba, Sr)TiO3 Thin Films	8	2853
Affecting the Stabilization of Mn Spinel Capacity upon Storing and Cycling at High	**Temperatures** Factors	8	2726
Atomic-Order Thermal Nitridation of Silicon at Low	**Temperatures**	12	4252
Estimation of Dissociation Parameters of Electrolytes at High	**Temperatures** from Specific Conductance Data	12	4107
Surface Pits Observed on SiO2 Thermally Grown at High	**Temperatures** on (111)-Oriented Czochralski-Silicon	6	2143
yrolytic Graphite Step and Pit Defects	**Template** Electropolymerization of Polypyrrole Nanostructures on Highly Ordered P	10	3320
ture of Low-Pressure Chemical Vapor Deposited Silicon Dioxide Films Grown from	**TEOS/N2O** Mixtures Thermodynamic Study, Composition, and Microstruc	4	1310
	Ternary Compounds and Phase Equilibria in Ti-Ge-C and Ti-Ge-B	9	3253
Polymer Electrolytes Based on Acrylonitrile-Methyl Methacrylate-Styrene	**Terpolymers** for Rechargeable Lithium-Polymer Batteries	6	1958

	Issue	Page
Gas Conversion Impedance: A **Test** Geometry Effect in Characterization of Solid Oxide Fuel Cell Anodes	7	2431
f Lead-Acid Batteries Crystal Structure of **Tetrabasic** Lead Sulfate (4PbO.PbSO4). An Intermediate Phase in the Production o	2	528
Mechanism of Amorphous Silica Film Formation from **Tetraethoxysilane** in Atomic Oxygen-Induced Chemical Vapor Deposition	8	2866
The Effect of Low-Pressure and Plasma-Enhanced Chemical Vapor Deposited **Tetraethylorthosilicate** Oxide Film on a Boron Implant Profile	5	1677
omputational Studies of Lithium Intercalation in Model Graphite in the Presence of **Tetrahydrofuran** C	10	3328
eters in the Low-Temperature Chemical Vapor Deposition of Titanium Nitride from **Tetraiodotitanium** The Effects of Processing Param	2	676
f the Gas-Phase Reaction in Metallorganic Chemical Vapor Deposition of TiN from **Tetrakis(dimethylamido)titanium** Effect o	7	2453
n Reduction. I. Characterization of the Electrocatalyst Heat-Treated Iron(III) **Tetramethoxyphenyl** Porphyrin Supported on High-Area Carbon as an Electrocatal	10	3493
A Raman Study of Etching Silicon in Aqueous **Tetramethylammonium** Hydroxide	11	4040
Influence of Deposition Parameters on the **Texture** of Chemical Vapor Deposited Tungsten Films by a WF6/H2/Ar Gas Source	9	3235
m Temperature Molten Salt Electrochemistry of **Thallium** in the Basic Aluminum Chloride-1-methyl-3-ethylimidazolium Chloride Roo	4	1196
n of Single and Multilayer Organic Coatings. I. Absorption and Transport of Water: **Theoretical** Analysis and Methods Monitoring Degradatio	11	3830
e Plating A **Theoretical** Analysis of the Effect of Inert Blocking Agent on the Galvanostatic Puls	11	3851
and Exchange Current Density **Theoretical** Analysis of Metal Hydride Electrodes. Studies on Equilibrium Potential	12	4082
ton-Conducting Membranes Phenomenological **Theory** of Electro-osmotic Effect and Water Management in Polymer Electrolyte Pro	8	2684
Changes in the Environment of Hydrogen in Porous Silicon with **Thermal** Annealing	7	2439
Low **Thermal** Budget In Situ Surface Cleaning for Selective Silicon Epitaxy	10	3602
Reaction Mechanism for the **Thermal** Decomposition of BCl3/H2 Gas Mixtures	9	3203
cation and Operation **Thermal** Expansion of Nickel-Zirconia Anodes in Solid Oxide Fuel Cells during Fabri	4	1374
Kinetics of the Formation of Titanium Nitride Layers by Rapid **Thermal** Low Pressure Chemical Vapor Deposition from TiCl4-NH3-H2	5	1672
t Cu Oxidation Effects of **Thermal** N2 Annealing on Passivation Capability of Sputtered Ta(-N) Layers Agains	11	4029
Atomic-Order **Thermal** Nitridation of Silicon at Low Temperatures	12	4252
a)Se2 Based Photovoltaic Structure Formed by Electrodeposition and Subsequent **Thermal** Processing A 10% Cu(In,G	10	3613
Designing Reduced-Order Models for Rapid **Thermal** Processing Systems	11	3974
A New Liquid Precursor with Improved **Thermal** Stability for Chemical Vapor Deposition of Copper	1	362
e and Metal Thickness The **Thermal** Stability of CoSi2 on Polycrystalline Silicon: The Effect of Silicon Grain Siz	4	1384
The **Thermal** Stability of Lithium Polymer Batteries	7	2327
Moisture Instability of Borophosphosilicate Glass and the Effects of **Thermal** Treatment	11	3950
Effects of Annealing on Oxygen Depth Profiles and Chemical Etching Rates of **Thermally** Grown Silicon Oxides	4	1306
Surface Pits Observed on SiO2 **Thermally** Grown at High Temperatures on (111)-Oriented Czochralski-Silicon	6	2143
ution **Thermocapillary** Phenomena and Bubble Coalescence during Electrolytic Gas Evol	6	1848
Thermodynamic and Kinetic Study of the Li/MnO2.Bi2O3 Electrochemical Couple	3	L31
System and the Formation of Metastable Solid Solutions **Thermodynamic** Behavior of Various Phases Appearing in the CeZrO4-CeZrO3.5	4	1406
Thermodynamic Properties of Pd-Li Alloys	3	785
Thermodynamic Stability of Chemically Delithiated Li(LixMn2-x)O4	2	569
l Vapor Deposited Silicon Dioxide Films Grown from TEOS/N2O Mixtures **Thermodynamic** Study, Composition, and Microstructure of Low-Pressure Chemica	4	1310
Thermodynamics and Kinetics of Gas-Phase Reactions in the Ti-Cl-H System	6	2167
Protonic and Native Conduction in Sr-Substituted LaPO4 Studied by **Thermoelectric** Power Measurements	10	3313
er, p-NiO/n-ZnO **Thermoelectricity** of Two-Phase Mixtures, Each with a Different Type Charge Carri	3	1008
sitivity of Polyaniline Derivatives/Polyvinyl Alcohol Composites **Thermogravimetric/Mass** and Infrared Spectroscopic Properties and Humidity Sen	10	3351
Steady-State and Transient Behavior of **Thick-Film** Tin Oxide Sensors in the Presence of Gas Mixtures	5	1772
bility of CoSi2 on Polycrystalline Silicon: The Effect of Silicon Grain Size and Metal **Thickness** The Thermal Sta	4	1384
Techniques Denuded Zone **Thickness** from Surface Photovoltage Measurements. Comparison with Microscopy	5	1632
Far-Infrared Reflection **Thickness** Measurements of Epitaxial Layers of Double Epitaxial Silicon Wafers by	5	1720
A New Process for Depositing Tungsten Nitride **Thin** Films	2	L21
Stability and Photoresponse of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 **Thin** Film Electrodes during Water Splitting Reactions	1	89
Gradient Control of Magnetic Properties in Electroless-Deposited CoNiP **Thin** Films	1	134
he Effect of Processing Conditions on Crystal Orientation and Structure in ZnS:Mn **Thin** Films T	1	226
O2-Plasma Passivation Effects on Polysilicon **Thin** Film Transistors Using Ion Plating Method	1	252
Effects of Experimental Parameters on Void Formation in the Growth of 3C-SiC **Thin** Film on Si Substrate	1	292
erties of Radio Frequency Magnetron Sputter Deposited Zirconium Titanate-Based **Thin** Films Dielectric Prop	1	358
emical Vapor Deposition Preparation of a-SiNx **Thin** Film with Low Hydrogen Content by Inductively Coupled Plasma Enhanced Ch	2	652
Radio-Frequency Reactively Sputtered VOx **Thin** Films Deposited at Different Oxygen Flows	2	706
Effect of O2 Addition on the Deposition of Pt **Thin** Films by Metallorganic Chemical Vapor Deposition	3	1066
gnetron Sputtering **Thin** Films of Amorphous Germanium-Tin Alloys Prepared by Radio-Frequency Ma	4	1303
Temperature Dependence of the Electrical Properties of SrBi2Ta2O9 **Thin** Films Deposited by Radio-Frequency Magnetron Sputtering	4	1330
Low Pressure Chemically Vapor Deposited WO3 **Thin** Films for Integrated Gas Sensor Applications	4	1346
Mechanism of Electroless Copper Film Formed on Ceramic Substrates Using ZnO **Thin** Film as an Intermediate Layer Adhesion	5	1430
Formation of **Thin** Films of CdTe, CdSe, and CdS by Electrochemical Atomic Layer Epitaxy	5	1442
The Pitting Behavior of Iron-Chromium **Thin** Film Alloys in Hydrochloric Acid	5	1566
Substrate Effects on Hardness and Polishing of SiO2 **Thin** Films	5	1790
Chemically Deposited Sb2S3 and Sb2S3-CuS **Thin** Films	6	2113
Dry Etching of SrS **Thin** Films	7	2461
Dry Etch Patterning of LaCaMnO3 and SmCo **Thin** Films	7	2512
Preparation of Indium Hydroxy Sulfide Inx(OH)ySz **Thin** Films by Chemical Bath Deposition	8	2775
Pitting in Aluminum **Thin** Films. Supersaturation and Effects of Dichromate Ions	8	2834
nduction Mechanism and Temperature-Dependent Current-Voltage in (Ba, Sr)TiO3 **Thin** Films Co	8	2853
Properties of a-SiOx:H **Thin** Films Deposited from Hydrogen Silsesquioxane Resins	8	2861
Model and Characterization of Process-Dependent Traps in Polycrystalline Silicon **Thin** Film Transistors A New Charge Pumping	8	2883
Atomic Layer Epitaxy Growth of TiN **Thin** Films from TiI4 and NH3	8	2914
Cyclic Voltammetry of Pulsed Laser Deposited LixMn2O4 **Thin** Films	9	2975
Formation of Catalytic Pd on ZnO **Thin** Films for Electroless Metal Deposition	10	3378
haracterization Sputtered Cobalt-Carbon-Nitrogen **Thin** Films as Oxygen Reduction Electrocatalysts. I. Physical and Electrochemical C	10	3507
roposed Mechanism Sputtered Cobalt-Carbon-Nitrogen **Thin** Films as Oxygen Reduction Electrocatalysts. II. Electrochemical Stability and P	10	3513
sition System Optimization of the Growth of CdTe **Thin** Films Formed by Electrochemical Atomic Layer Epitaxy in an Automated Depo	10	3594
Lowering of Leakage Current Density of (Ba,Sr)TiO3 **Thin** Films by Pulse Injection Deposition	11	3884
Novel Method for the Formation of Large-Grained, Silicon **Thin** Films on Amorphous Substrates	11	3963
Materials Issues with **Thin** Film Hydrogen Silsesquioxane Low K Dielectrics	11	4019
anganese Nickel Oxides Lix(MnyNi1-y)2-xO2. I. Synthesis and Characterization of **Thin** Films and Bulk Phases Lithium M	12	4148
In Situ Pulsed Deposition Studies of Ce(tmhd)4 on SrS Surfaces for **Thin** Film Electroluminescent Flat Panel Display Applications	12	4271
Kinetics of Vapor-Phase Electrolytic Deposition of Yttria-Stabilized Zirconia **Thin** Films	12	4277
y of Rapid Photothermal Annealing of Sputtered Lead Lanthanum Zirconia Titanate **Thin** Films A Stud	12	4317
Investigation of Boron Penetration Through **Thin** Gate Dielectrics Including Role of Nitrogen and Fluorine	7	2545
Chemical and Electrochemical Passivation of PbSe **Thin** Layers Grown by Molecular Beam Epitaxy	2	512
Impedance Studies of the Oxygen Reduction on **Thin** Porous Coating Rotating Platinum Electrodes	7	2307
Nitrogen Incorporation in **Thin** Silicon Oxides in a N2O Plasma. Effects of Processing Conditions	2	662
Nitrogen Concentration Dependence on Boron Diffusion in **Thin** Silicon Oxynitrides Used for Metal-Oxide-Semiconductor Devices	2	689
Differentiation Between Electric Breakdowns and Dielectric Breakdown in **Thin** Silicon Oxides	3	1033
Method for Measuring Deep Levels in **Thin** Silicon-on-Insulator Layer Without Any Interface Effects	10	3581
g Electrical Characterization of **Thin** SiO2 Films on Silicon Created by Anodic Oxygen Corona Discharge Processin	8	2937
Barrier Properties of Very **Thin** Ta and TaN Layers Against Copper Diffusion	7	2538
ium Manganese Nickel Oxides Lix(MnyNi1-y)2-xO2. II. Electrochemical Studies on **Thin-Film** Batteries Lith	12	4160
Thin-Film Crystalline SnO2-Lithium Electrodes	1	1
Hydrogen Evolution on **Thin-Film** Deposited Electrodes Prepared by a Plasma-Based Technique	9	3150
Water Electrolysis Using Diamond **Thin-Film** Electrodes	7	2358
Growth and Characterization of Eu:Y2O3 **Thin-Film** Phosphors on Silicon and Diamond-Coated Silicon Substrates	10	3456
rphous WSix Film **Thin-Film** Properties and Barrier Effectiveness of Chemically Vapor Deposited Amo	12	4206
Conditions Field Oxide **Thinning** Behavior in Local Oxidation of Silicon Process under Enhanced Oxidation	5	1664

		Issue	Page
on Losses in Bicomponent WO3/TiO2 Films Photosensitized with Cresyl Violet and	**Thionine** Decrease of Recombinati	11	3981
y, Electrochemistry, and Quartz Crystal Microbalance Studies of Leveling Effects of	**Thiourea** on Copper Deposition Confocal Laser Scanning Microscop	3	957
Adsorption of	**Thiourea** on Copper Electrodes Monitored by In Situ Infrared Spectroscopy	10	3366
e of LiMn2O4/C Li-Ion Cells in Their Discharged State. Understanding by Means of	**Three-Electrode** Measurements Self-Discharg	1	194
Thermodynamics and Kinetics of Gas-Phase Reactions in the	**Ti-Cl-H** System	6	2167
Ternary Compounds and Phase Equilibria in Ti-Ge-C and	**Ti-Ge-B**	9	3253
Ternary Compounds and Phase Equilibria in	**Ti-Ge-C** and Ti-Ge-B	9	3253
Voltammetric Studies of the Behavior of Carbon Black during Phenol Oxidation on	**Ti/Pt** Electrodes	8	2763
High-Temperature Diffusion of Hydrogen and Deuterium in Titanium and	**Ti3Al**	7	2471
m Nitride Layers by Rapid Thermal Low Pressure Chemical Vapor Deposition from	**TiCl4-NH3-H2** Kinetics of the Formation of Titaniu	5	1672
Atomic Layer Epitaxy Growth of TiN Thin Films from	**TiI4** and NH3	8	2914
Influence of Overpolish	**Time** on the Performance of W Damascene Technology	4	1285
onate Solution of LiClO4	**Time-Dependent** Electrochromism of Nanocrystalline TiO2 Films in Propylene Carb	6	1982
ene)-Modified Electrode	**Time-Resolved** Mono-anion, Di-anion, and Solvent Transfers into a Poly(vinylferroc	2	L24
Study of	**Tin** Cementation in Alkaline Solution	1	186
Effect of the Gas-Phase Reaction in Metallcrganic Chemical Vapor Deposition of	**TiN** from Tetrakis(dimethylamido)titanium	7	2453
Electrochemistry of	**TiN** in 6 M KOH Solution	4	1211
Effect of	**TiN** Microstructure on Diffusion Barrier Properties in Cu Metallization	6	2164
Steady-State and Transient Behavior of Thick-Film	**Tin** Oxide Sensors in the Presence of Gas Mixtures	5	1772
The Electrochromic Behavior of Indium	**Tin** Oxide in Propylene Carbonate Solutions	7	2225
Micromachining of	**Tin** Oxide Film by Electrochemical Reduction Process	9	3067
Atomic Layer Epitaxy Growth of	**TiN** Thin Films from TiI4 and NH3	8	2914
Oxygen Diffusion in Single-Crystal In2O3 and	**Tin-Doped** In2O3	8	2910
Time-Dependent Electrochromism of Nanocrystalline	**TiO2** Films in Propylene Carbonate Solution of LiClO4	6	1982
Photochemical and Photoelectrochemical Behavior of a Novel	**TiO2/Ni(OH)2** Electrode	7	2380
Effect of Fluorine on Surface Morphology in Selective Epitaxial	**TiSi2** Growth by Plasma-Enhanced Chemical Vapor Deposition	5	1640
A Study of Rapid Photothermal Annealing of Sputtered Lead Lanthanum Zirconia	**Titanate** Thin Films	12	4317
Dielectric Properties of Radio Frequency Magnetron Sputter Deposited Zirconium	**Titanate-Based** Thin Films	1	358
Chemical Reactions in Plasma-Assisted Chemical Vapor Deposition of	**Titanium**	7	2558
rrent Transients Resulting from Oxide Rupture of Plastically Strained Beta + Alpha	**Titanium** Modeling of Anodic Cu	6	1829
High-Temperature Diffusion of Hydrogen and Deuterium in	**Titanium** and Ti3Al	7	2471
lectrochemical Determination of the Porosity of Single and Duplex PVD Coatings of	**Titanium** and Titanium Nitride on Brass E	12	4173
Determination of Precursor Sites for Pitting Corrosion of Polycrystalline	**Titanium** by Using Different Techniques	6	2005
Investigations on the Electroreduction of	**Titanium** Chlorides in AlCl3-Dimethylsulfone Electrolyte	1	110
Ethanol Electro-oxidation in Ruthenium-Oxide-Coated	**Titanium** Electrodes	11	3839
The Mechanism of Electropolishing of	**Titanium** in Methanol-Sulfuric Acid Electrolytes	7	2362
s of Processing Parameters in the Low-Temperature Chemical Vapor Deposition of	**Titanium** Nitride from Tetraiodotitanium The Effect	2	676
n from TiCl4-NH3-H2 Kinetics of the Formation of	**Titanium** Nitride Layers by Rapid Thermal Low Pressure Chemical Vapor Depositio	5	1672
l Determination of the Porosity of Single and Duplex PVD Coatings of Titanium and	**Titanium** Nitride on Brass Electrochemica	12	4173
Dopant Effects on Lateral Silicide Growth in Self-Aligned	**Titanium** Silicide Process	10	3585
Deposition and Film Characterization Selective	**Titanium** Silicide Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemical Vapor	11	3941
th of the Matrix Electrodeposited	**Ti2O3-Matrix** Composites. I. Effect of the Dispersed Phase on Nucleation and Grow	2	549
O3/Co3O4 Composites Electrodeposited	**Ti2O3-Matrix** Composites. II. Electrocatalysis of Oxygen Evolution Reaction on Ti2	2	555
ited Ti2O3-Matrix Composites. II. Electrocatalysis of Oxygen Evolution Reaction on	**Ti2O3/Co3O4** Composites Electrodepos	2	555
MnO2" Structure with Its Related Layered Structures	**Todorokite** as a Li Insertion Cathode. Comparison of a Large Tunnel Framework "	11	3746
Methanol	**Tolerant** Oxygen Reduction Catalysts Based on Transition Metal Sulfides	10	3463
arbon Chemistries for a High Aspect Ratio Via Etch in a High Density Plasma Etch	**Tool** Use of Novel Hydrofluorocarbon and Iodofluoroc	12	4305
Mass Transport in Gas-Diffusion Electrodes: A Diagnostic	**Tool** for Fuel-Cell Cathodes	1	5
Noise as a Diagnostic	**Tool** for Semiconductor Material and Device Characterization	6	2058
Surface Finishing of High Speed Print Bands. I. A Prototype	**Tool** for Electrochemical Microfinishing and Character Rounding of Print Bands	9	3047
An Advanced	**Tool** for the Selection of Electrolyte Components for Rechargeable Lithium Batteries	10	3482
Scanning Electrochemical Microscopy with Simultaneous Independent	**Topography**	4	L64
al Stress-Induced Dislocations in Large-Diameter Silicon Wafers Studied by X-Ray	**Topography** and Computer Simulation Gravitation	7	2523
ena during the Reduction of Hydrogen Peroxide in Alkaline Solution Involving Mass	**Transfer** Nonlinear Phenom	11	3857
Mass	**Transfer** and Kinetic Phenomena at the Nickel Hydroxide Electrode	11	3860
on Heating Heat	**Transfer**, Fluid Flow, and Interface Shapes in Zone Melting Processing with Inducti	11	3926
Direct Electron	**Transfer** for Hemoglobin in Surfactant Films Cast on Carbon Electrodes	2	533
Time-Resolved Mono-anion, Di-anion, and Solvent	**Transfers** into a Poly(vinylferrocene)-Modified Electrode	2	L24
al Density Applied to Corrosion Studies. Maximum Entropy Method or Fast Fourier	**Transform?** Analysis of Electrochemical Noise by Power Spectr	8	2780
Calculation of Gas Spectra for Quantitative Fourier	**Transform** Infrared Spectroscopy of Chemical Vapor Deposition	9	3212
	Transformation of Colored Random Noise by Kronig-Kramers Transforms	2	L20
rochemical Quartz Crystal Microbalance A Study on the Phase	**Transformation** of Electrochemically Precipitated Nickel Hydroxides Using an Elect	2	507
is of MnO2 Phases from LiMn2O4 in Aqueous Acidic Media. Mechanisms of Phase	**Transformations**, Reactivity, and Effect of Bi Species Synthes	10	3392
Transformation of Colored Random Noise by Kronig-Kramers	**Transforms**	2	L20
Modeling of the	**Transient** Behavior of Anodic Oxides Formed in Si/HF Electrolyte Systems	1	332
s Steady-State and	**Transient** Behavior of Thick-Film Tin Oxide Sensors in the Presence of Gas Mixture	5	1772
tors A New Voltage	**Transient** Technique for Deep-Level Studies in Depletion-Mode Field-Effect Transis	9	3258
um Modeling of Anodic Current	**Transients** Resulting from Oxide Rupture of Plastically Strained Beta + Alpha Titani	6	1829
for Encapsulation of Refractory Metal Gate GaAs Metal-Semiconductor Field Effect	**Transistor** Optimization of SiON Film Compositions	1	323
d Characterization of Process-Dependent Traps in Polycrystalline Silicon Thin Film	**Transistors** A New Charge Pumping Model an	8	2883
oltage Transient Technique for Deep-Level Studies in Depletion-Mode Field-Effect	**Transistors** A New V	9	3258
Density Plasma Damage in InGaP/GaAs and AlGaAs/GaAs High Electron Mobility	**Transistors** High	11	4036
rce/Drain Technology for Deep Submicron Metal Oxide Semiconductor Field Effect	**Transistors** Parasitic Resistance Considerations of Using Elevated Sou	6	2131
thods for Investigating the Defect Properties of SiO2 in Metal Oxide Semiconductor	**Transistors** Experimental Me	10	3638
Reliability Improvement of AlInAs/GaInAs High Electron Mobility	**Transistors** by Fluorine Incorporation Control	8	2951
O2-Plasma Passivation Effects on Polysilicon Thin Film	**Transistors** Using Ion Plating Method	1	252
s Microelectrode Evaluation of	**Transition** Metal-Aluminum Alloy Electrodepositions in Chloroaluminate Ionic Liquid	5	1598
Common Electroanalytical Behavior of Li Intercalation Processes into Graphite and	**Transition** Metal Oxides	9	3024
Methanol Tolerant Oxygen Reduction Catalysts Based on	**Transition** Metal Sulfides	10	3463
hemical Sensors with Catalytic Metal Gates. Switching Behavior and Kinetic Phase	**Transitions** C	10	3401
Evidence for Direct Gamma-NiOOH Beta-Ni(OH)2	**Transitions** during Electrochemical Cycling of the Nickel Hydroxide Electrode	5	1434
The Mechanism of the	**Transpassive** Dissolution of Chromium in Acidic Sulfate Solutions	6	2043
ge of Oxygen Vacancies Mathematical Modeling of Oxygen Exchange and	**Transport** in Air-Perovskite-Yttria-Stabilized Zirconia Interface Regions. II. Direct Ex	4	1390
Mass	**Transport** in Gas-Diffusion Electrodes: A Diagnostic Tool for Fuel-Cell Cathodes	1	5
Proton and Methanol	**Transport** in Poly(perfluorosulfonate) Membranes Containing Cs+ and H+ Cations	11	3798
asound Mass	**Transport** in Sonovoltammetry with Evidence of Hydrodynamic Modulation from Ultr	6	1994
Li Polymer Batteries An Ionic Conductivity and Spectroscopic Study of Ionic	**Transport** Mechanism in Fire-Retardant Polyacrylonitrile-Based Gel Electrolytes for	3	881
Diffusion Coefficients of Mixed Ionic-Electronic Conductors with Arbitrary Electronic	**Transport** Numbers. Application of Impedance, Potentiostatic, and Galvanostatic M	6	2179
onitoring Degradation of Single and Multilayer Organic Coatings. I. Absorption and	**Transport** of Water: Theoretical Analysis and Methods M	11	3830
The Effect of Mass	**Transport** on Li Deposition and Dissolution	9	3094
ystem P(EO)n-NaTFSI	**Transport** Property and Raman Spectroscopic Studies of the Polymer Electrolyte S	5	1586
ents Determination of the	**Trap** Density in Amorphous Silicon by Quasi-static Capacitance-Voltage Measurem	5	1786
The Search for Cathode and Anode	**Traps** in High-Voltage Stressed Silicon Oxides	4	1292
A New Charge Pumping Model and Characterization of Process-Dependent	**Traps** in Polycrystalline Silicon Thin Film Transistors	8	2883
Moisture Instability of Borophosphosilicate Glass and the Effects of Thermal	**Treatment**	11	3950
Reduction in Contact Resistance with In Situ O2 Plasma	**Treatment**	7	2480
Excellent Electrical Characteristics of Ultrafine	**Trench** Isolation	5	1684
The Realization of Silicon-on-Insulator Utilizing	**Trench-before-Bond** and Polish Stop Technology	5	1738

		Issue	Page
Pulse Reverse Copper Electrodeposition in High Aspect Ratio	**Trenches** and Vias	9	3070
Dry Etching of Deep Si	**Trenches** for Released Resonators in a Cl2 Plasma	5	1767
hotoluminescence Studies of Cadmium Selenide Crystals in Contact with Group III	**Trialkyl** Derivatives P	7	2475
	Tribochemical Polishing of Silicon Nitride	5	1708
on	**Tribochemical** Reactions of Silicon: An In Situ Infrared Spectroscopy Characterizati	7	2465
Wear-Accelerated Corrosion of Passive Metals in	**Tribocorrosion** Systems	3	750
Decomposition of	**Trichloroethylene** by Microwave-Induced Plasma Generated from SiC Whiskers	1	229
ing Electrochemical and Photoelectrochemical Microscopy Elucidation of a	**Trigger** Mechanism for Pitting Corrosion of Stainless Steels Using Submicron Resol	8	2664
Direct Observation of Anodic Films Formed on Gallium Phosphide in Aqueous	**Tungstate** Electrolyte	9	3011
he Effects of Post Chemical Mechanical Planarization Buffing on Defect Density of	**Tungsten** and Oxide Wafers T	12	4240
	Tungsten Chemical-Mechanical Polishing	5	1659
In Situ Electrochemical Investigation of	**Tungsten** Electrochemical Behavior during Chemical Mechanical Polishing	9	3190
Influence of Deposition Parameters on the Texture of Chemical Vapor Deposited	**Tungsten** Films by a WF6/H2/Ar Gas Source	9	3235
The Nature of Oxide Films on	**Tungsten** in Acidic and Alkaline Solutions	8	2718
A New Process for Depositing	**Tungsten** Nitride Thin Films	2	L21
Scanning Force Microscopy Investigation of Surface Forces at the	**Tungsten** Oxide/Lithium Borate Interface	2	669
Dependence of Optical Gap and Coloration Efficiency Spectrum in Electrochromic	**Tungsten** Oxide Films Deposition Temperature	5	1729
Sensors for Detecting Sub-ppm NO2 Using Photochemically Produced Amorphous	**Tungsten** Oxide	12	4219
Anionic Substitution	**Tuning** the Position of the Redox Couples in Materials with NASICON Structure by	5	1518
pact of Floating Gate Dopant Concentration and Interpoly Dielectric Processing on	**Tunnel** Dielectric Reliability Im	4	1351
Todorokite as a Li Insertion Cathode. Comparison of a Large	**Tunnel** Framework "MnO2" Structure with Its Related Layered Structures	11	3746
anofabrication of Small Palladium Clusters on Au(111) Electrodes with a Scanning	**Tunnel** Microscope N	3	L33
e-Crystal Surfaces X-Ray Photoelectron Spectroscopy and Scanning	**Tunneling** Microscopy Study of Passive Films Formed on (100) Fe-18Cr-13Ni Singl	3	909
Acid Solution Atomically Resolved Scanning	**Tunneling** Microscopy Images of InP(001), (111)A, and (111)B Surfaces in Sulfuric	9	3090
A Mathematical Model for the Initiation of Aluminum Etch	**Tunnels**	9	3100
Modeling the	**Twin** Platinum Probe Scanning Electrode Response	12	4074
Negative Impedance of the Nafion Membrane Between	**Two** Electrolyte Solutions	8	2740
Linear Stability Analysis of Unsteady Galvanostatic Electrodeposition in the	**Two-Dimensional** Diffusion-Limited Regime	6	2016
ng. II. Strategies to Achieve Complete Densification A	**Two-Dimensional** Model of Chemical Vapor Infiltration with Radio-Frequency Heati	10	3569
Protection of Copper Corrosion by an Ultrathin	**Two-Dimensional** Polymer Film of Alkanethiol Monolayer	6	1856
Thermoelectricity of	**Two-Phase** Mixtures, Each with a Different Type Charge Carrier, p-NiO/n-ZnO	3	1008
Photoluminescence of Semi-insulating InP Wafers Prepared by	**Two-Step** Wafer Annealing	3	1048
Ultrasmooth V-Grooves in InP by	**Two-Step** Wet Chemical Etching	4	1273
tes Associated with Natural Convection along a Plane Vertical Anode Measured by	**Two-Wavelength** Holographic Interferometry Ionic Mass-Transfer Ra	11	3814
ation Improvement of Pitting Corrosion Resistance of	**Type** 304 Stainless Steel by Modification of Passive Film with Ultraviolet Light Irradi	5	L79
The Influence of Sulfate-Reducing Bacteria on the Passivity of	**Type** 317L Austenitic Stainless Steel	6	1914
Thermoelectricity of Two-Phase Mixtures, Each with a Different	**Type** Charge Carrier, p-NiO/n-ZnO	3	1008

— U —

Ultrahigh Vacuum	**Ultraclean** Si/Si Interface Formation by Surface Preparation and Direct Bonding in	5	1645
Excellent Electrical Characteristics of	**Ultrafine** Trench Isolation	5	1684
The Reaction of Clean Li Surfaces with Small Molecules in	**Ultrahigh** Vacuum. II. Water	1	159
Ultraclean Si/Si Interface Formation by Surface Preparation and Direct Bonding in	**Ultrahigh** Vacuum	5	1645
ality Nitrided Gate Dielectric Films Manufactured in Reduced Pressure Furnace for	**Ultralarge** Scale Integration Complementary Metal Oxide Semiconductor Applicatio	5	1679
	Ultrasmooth V-Grooves in InP by Two-Step Wet Chemical Etching	4	1273
ss Transport in Sonovoltammetry with Evidence of Hydrodynamic Modulation from	**Ultrasound** Ma	6	1994
Processes in	**Ultrathin** Buried Oxide Synthesis Stimulated by Low Dose Ion Implantation	8	2964
Surface and Interface Roughness of	**Ultrathin** Nitric Oxide Oxynitride Gate Dielectric	1	L13
	Ultrathin Ta2O5 Film Capacitor with Ru Bottom Electrode	8	2961
Protection of Copper Corrosion by an	**Ultrathin** Two-Dimensional Polymer Film of Alkanethiol Monolayer	6	1856
Low Temperature Copper Etching Using an Inductively Coupled Plasma with	**Ultraviolet** Light Irradiation	3	L37
rosion Resistance of Type 304 Stainless Steel by Modification of Passive Film with	**Ultraviolet** Light Irradiation Improvement of Pitting Cor	5	L79
Laser Microwave Photoconductance Studies of	**Ultraviolet-Irradiated** Silicon Wafers. Effect of Metallic Contamination	1	329
mposition of n-GaAs Cathodes during Hydrogen Evolution Characterized by In Situ	**Ultraviolet-Visible** Ellipsometry and In Situ Infrared Spectroscopy Surface C	2	447
Modeling of Growth Morphology of	**Underpotential** Electropolymerization of Pyrrole on Graphite	1	179
Self-Discharge of LiMn2O4/C Li-Ion Cells in Their Discharged State.	**Understanding** by Means of Three-Electrode Measurements	1	194
Toward a	**Unified** Reaction Mechanism for Chemical Vapor Deposition of Copper	1	347
Fabrication and Characterization of	**Uniform** Metallic Nanostructures Using Nanochannel Glass	1	247
Regime Linear Stability Analysis of	**Unsteady** Galvanostatic Electrodeposition in the Two-Dimensional Diffusion-Limited	6	2016
High Anodic Stability of a New Electrolyte Solvent:	**Unsymmetric** Noncyclic Aliphatic Sulfone	4	L70
nitored with Raman Spectroscopy Corrosion Protection of	**Untreated** AA-2024-T3 in Chloride Solution by a Chromate Conversion Coating Mo	7	2258
d Nitrite Ions with Various Metal Catalysts Electrochemical Synthesis of	**Urea** at Gas-Diffusion Electrodes. III. Simultaneous Reduction of Carbon Dioxide an	2	595
d Nitrate Ions with Various Metal Catalysts Electrochemical Synthesis of	**Urea** at Gas-Diffusion Electrodes. IV. Simultaneous Reduction of Carbon Dioxide an	7	2348
Proton Diffusion in Nickel Hydroxide. Prediction of Active Material	**Utilization**	1	29
eling of Solid Oxide Heat Exchanger Integrated Stacks and Simulation at High Fuel	**Utilization** Mod	11	3995
Oxide Fuel Cell	**Utilization** of Hydrogen Sulfide in an Intermediate-Temperature Ceria-Based Solid	5	1449
Analysis of Fuel	**Utilization** Performance of Round Substrate, Planar Solid Oxide Fuel Cells	3	931
The Realization of Silicon-on-Insulator	**Utilizing** Trench-before-Bond and Polish Stop Technology	5	1738

— V —

Ultrasmooth	**V-Grooves** in InP by Two-Step Wet Chemical Etching	4	1273
Wet Chemical Etching for	**V-grooves** into InP Substrates	8	2931
A 400 mAh/g Aerogel-like	**V2O5** Cathode for Rechargeable Lithium Batteries	5	L73
Charge-Discharge Properties of Composite Films of Polyaniline and Crystalline	**V2O5** Particles	8	2707
Molecular Dynamics Simulation of	**V2O5/Li2SiO3** Interface	6	2155
rovskite-Yttria-Stabilized Zirconia Interface Regions. II. Direct Exchange of Oxygen	**Vacancies** Mathematical Modeling of Oxygen Exchange and Transport in Ai	4	1390
Oxygen	**Vacancies** in SiO2 Layers on Si Produced at High Temperature	9	3157
Kinetic Study of the Formation of Oxygen	**Vacancy** on Lanthanum Manganite Electrodes	2	373
n Si/Si Interface Formation by Surface Preparation and Direct Bonding in Ultrahigh	**Vacuum** Ultraclea	5	1645
Interface State Capture Cross Section Measurements on	**Vacuum** Annealed and Radiation Damaged Si:SiO2 Surfaces	2	683
Oxidation and Reduction of Liquid SnPb (60/40) under Ambient and	**Vacuum** Conditions	6	2138
The Reaction of Clean Li Surfaces with Small Molecules in Ultrahigh	**Vacuum**. II. Water	1	159
roperty of Prussian Blue Films Containing Concentration Gradients in Serial Mixed	**Valent** Layers Diode-Like P	11	3788
tion Highly Stable	**Vanadium** Oxide Cathodes Prepared by Plasma-Enhanced Chemical Vapor Deposi	6	1889
abrication of Ag/Y2O3-Stabilized ZrO2 Composite Films by Metallorganic Chemical	**Vapor** Deposition F	1	L4
Toward a Unified Reaction Mechanism for Chemical	**Vapor** Deposition of Copper	1	347
A New Liquid Precursor with Improved Thermal Stability for Chemical	**Vapor** Deposition of Copper	1	362
m with Low Hydrogen Content by Inductively Coupled Plasma Enhanced Chemical	**Vapor** Deposition Preparation of a-SiNx Thin Fil	2	652
The Effects of Processing Parameters in the Low-Temperature Chemical	**Vapor** Deposition of Titanium Nitride from Tetraiodotitanium	2	676
of Experiments with a Lumped Parameter Model of the Plasma Assisted Chemical	**Vapor** Deposition of Copper Comparison	2	694
ctivity of Alkylsilanes and Alkylcarbosilanes in Atomic Hydrogen-Induced Chemical	**Vapor** Deposition Rea	3	1060
Effect of O2 Addition on the Deposition of Pt Thin Films by Metallorganic Chemical	**Vapor** Deposition	3	1066
The Effects of Gas-Phase Additives NH3, NO, and NO2 on SiH4/O2 Chemical	**Vapor** Deposition	3	1070
A Kinetic Study of the Chemical	**Vapor** Deposition of Silicon Carbide from Dichlorodimethylsilane Precursors	4	1277
hermodynamic Study, Composition, and Microstructure of Low-Pressure Chemical	**Vapor** Deposited Silicon Dioxide Films Grown from TEOS/N2O Mixtures T	4	1310
The Kinetics of the Low-Pressure Chemical	**Vapor** Deposition of Polycrystalline Silicon from Silane	4	1318

		Issue	Page
Low Pressure Chemically	**Vapor** Deposited WO3 Thin Films for Integrated Gas Sensor Applications	4	1346
ce Morphology in Selective Epitaxial TiSi2 Growth by Plasma-Enhanced Chemical	**Vapor** Deposition Effect of Fluorine on Surfa	5	1640
he Formation of Titanium Nitride Layers by Rapid Thermal Low Pressure Chemical	**Vapor** Deposition from TiCl4-NH3-H2 Kinetics of t	5	1672
The Effect of Low-Pressure and Plasma-Enhanced Chemical	**Vapor** Deposited Tetraethylorthosilicate Oxide Film on a Boron Implant Profile	5	1677
Highly Stable Vanadium Oxide Cathodes Prepared by Plasma-Enhanced Chemical	**Vapor** Deposition	6	1889
Investigation of Particle Generation during the Low-Pressure Chemical	**Vapor** Deposition of Borophosphosilicate Glass Films	6	2051
hanced Nucleation and Growth of Diamond Films by Microwave Plasma Chemical	**Vapor** Deposition Structural Investigation of the Bias-En	6	2095
Effect of the Gas-Phase Reaction in Metallorganic Chemical	**Vapor** Deposition of TiN from Tetrakis(dimethylamido)titanium	7	2453
Design of Injection Feed Multiwafer Low-Pressure Chemical	**Vapor** Deposition Reactors	7	2494
Films for Solar Cell Application Obtained with 55 kHz Plasma Enhanced Chemical	**Vapor** Deposition Amorphous Hydrogenated Silicon	7	2508
Growth Kinetics of Chemical	**Vapor** Deposition of Beta-SiC from (CH3)2SiCl2/Ar	7	2516
Chemical Reactions in Plasma-Assisted Chemical	**Vapor** Deposition of Titanium	7	2558
Electron Field Emission from Chemical	**Vapor** Deposited Diamond Films	7	2572
haracteristics of Silicon Oxide Films Deposited by Atmospheric Pressure Chemical	**Vapor** Deposition Using Si(OC2H5)4 and O3 Effects of Substrate on the Gro	8	2847
Silica Film Formation from Tetraethoxysilane in Atomic Oxygen-Induced Chemical	**Vapor** Deposition Mechanism of Amorphous	8	2866
licon Film Deposition from H2-He-SiH4 Using Remote Plasma Enhanced Chemical	**Vapor** Deposition Microcrystalline Si	8	2900
Gas Spectra for Quantitative Fourier Transform Infrared Spectroscopy of Chemical	**Vapor** Deposition Calculation of	9	3212
Influence of Deposition Parameters on the Texture of Chemical	**Vapor** Deposited Tungsten Films by a WF6/H2/Ar Gas Source	9	3235
Ethanol-Addition-Enhanced, Chemical	**Vapor** Deposited Tantalum Oxide Films from Ta(OC2H5)5 and Oxygen Precursors	9	3247
talline Silicon Films Prepared at Low Temperature by Plasma-Enhanced Chemical	**Vapor** Deposition Relationship Between Structural and Optical Properties in	10	3615
ective Titanium Silicide Deposition Using SiH4-TiCl4-H2 in Low-Pressure Chemical	**Vapor** Deposition and Film Characterization Sel	11	3941
Remote Plasma-Enhanced Chemical	**Vapor** Deposition of SiO2 Using Ar/N2O and SiH4	11	3957
Alumina Coatings Applied via Combustion Chemical	**Vapor** Deposition and Their Effects on the Oxidation of a Ni-Base Chromia Former	11	3986
W-Clad Layer Formation on Heavily Doped p+-Si by Selective Chemical	**Vapor** Deposition	12	4203
Thin-Film Properties and Barrier Effectiveness of Chemically	**Vapor** Deposited Amorphous WSix Film	12	4206
The Role of Gas-Phase Reactions during Chemical	**Vapor** Deposition of Copper from (hfac)Cu(tmvs)	12	4226
Chemical	**Vapor** Deposition Stability Diagram for the BiI3-O2 System	12	4234
Very Low Pressure Selective Aluminum Chemical	**Vapor** Deposition Using Dimethylaluminum Hydride Without H2 Carrier Gas	12	4327
Optimum Conditions for Composites Fiber Coating by Chemical	**Vapor** Infiltration	4	1263
Densification A Two-Dimensional Model of Chemical	**Vapor** Infiltration with Radio-Frequency Heating. II. Strategies to Achieve Complete	10	3569
A Laboratory Study of the Effect of Acetic Acid	**Vapor** on Atmospheric Copper Corrosion	12	4140
eable Cells Optimization of the Dimensions of	**Vapor-Grown** Carbon Fiber for Use as Negative Electrodes in Lithium-Ion Recharg	1	210
Kinetics of	**Vapor-Phase** Electrolytic Deposition of Yttria-Stabilized Zirconia Thin Films	12	4277
Process Optimization of ZnSe and ZnS Epitaxial Growth in a Vertical Metallorganic	**Vapor-Phase** Epitaxy Reactor Modeling and	8	2887
ectrode Properties Preparation of Perovskite-Type La1-xSrxMnO3 Films by	**Vapor-Phase** Processes and Their Electrochemical Properties. II. Effects of Doping	6	1999
An Investigation of Faradaic Admittance for Electrode Processes Involving n State	**Variables** Besides Electrode Potential	2	517
A Novel Statistical Metrology Framework for Identifying Sources of	**Variation** in Oxide Chemical Mechanical Polishing	3	1052
es Comparison of Power Densities and Chemical Potential	**Variation** in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolyt	1	99
La1-xBaxCr1-yTiyO3 with	**Varied** Oxygen Content	1	264
Current Change Method of Reducing Gas Sensing Using ZnO	**Varistors**	8	2920
n of Zr(Ni,Mn)2 Laves Phase Alloys as Negative Active Material for Ni-MH Electric	**Vehicle** Batteries Evaluatio	5	1478
The Effect of the Lead Alloy Hardening Process in Electric	**Vehicle** Storage Batteries on Corrosion Resistance	9	3183
Estimation of Front	**Velocity** in Electrodeposition onto Highly Resistive Substrates	1	165
Ionic Mass-Transfer Rates Associated with Natural Convection along a Plane	**Vertical** Anode Measured by Two-Wavelength Holographic Interferometry	11	3814
Modeling and Process Optimization of ZnSe and ZnS Epitaxial Growth in a	**Vertical** Metallorganic Vapor-Phase Epitaxy Reactor	8	2887
Improved Preparation Process of	**Very-Low-Platinum-Loading** Electrodes for Polymer Electrolyte Fuel Cells	11	3708
Ni-Base Chromia Former Alumina Coatings Applied	**via** Combustion Chemical Vapor Deposition and Their Effects on the Oxidation of a	11	3986
ovel Hydrofluorocarbon and Iodofluorocarbon Chemistries for a High Aspect Ratio	**Via** Etch in a High Density Plasma Etch Tool Use of N	12	4305
Sequential Observation of Electroless Copper Deposition	**via** Noncontact Atomic Force Microscopy	9	3301
Electro-oxidative Deposition of C60	**via** Scanning Electrochemical Microscope	2	503
Application of Laser-Cleaning Technique for Efficient Removal of	**Via-Etch-Induced** Polymers	11	3966
Pulse Reverse Copper Electrodeposition in High Aspect Ratio Trenches and	**Vias**	9	3070
istry of a Chromate Conversion Coating on Aluminum Alloy AA2024-T3 Probed by	**Vibrational** Spectroscopy Chem	9	3083
ecombination Losses in Bicomponent WO3/TiO2 Films Photosensitized with Cresyl	**Violet** and Thionine Decrease of R	11	3981
Effect of Additives on the	**Viscosity** of Liquid-Phase Dimethylaluminum Hydride	2	L23
l Species and Their Composition in Ni-Mo Alloy Plating Baths by Factor Analysis of	**Visible** Absorption Spectra Determination of Chemica	2	523
Measurements of	**VOCs** with a Semiconductor Electronic Nose	7	2496
Effects of Experimental Parameters on	**Void** Formation in the Growth of 3C-SiC Thin Film on Si Substrate	1	292
Constant	**Voltage** Anodizing of Mg-Al Alloys in KOH-Al(OH)3 Solutions	1	190
Transistors A New	**Voltage** Transient Technique for Deep-Level Studies in Depletion-Mode Field-Effect	9	3258
Prediction of Li Intercalation and Battery	**Voltages** in Layered vs. Cubic LixCoO2	7	2424
Effect of Temperature on the	**Voltammetric** Behavior of Poly-o-toluidine	10	3530
le in Acetonitrile Organosulfur/Conducting Polymer Composite Cathodes. I.	**Voltammetric** Study of the Polymerization and Depolymerization of 2,5-Dimercapto-	6	1893
Ti/Pt Electrodes	**Voltammetric** Studies of the Behavior of Carbon Black during Phenol Oxidation on	8	2763
Direct Electrochemical Detection of C60 in Solution by Steady-State	**Voltammetry** at Microelectrodes	4	1227
Cyclic	**Voltammetry** of Pulsed Laser Deposited LixMn2O4 Thin Films	9	2975
Radio-Frequency Reactively Sputtered	**VOx** Thin Films Deposited at Different Oxygen Flows	2	706

— W —

osition	**W-Clad** Layer Formation on Heavily Doped p+-Si by Selective Chemical Vapor Dep	12	4203
Photoluminescence of Semi-insulating InP Wafers Prepared by Two-Step	**Wafer** Annealing	3	1048
Present and Future Role of Chemical Mechanical Polishing in	**Wafer** Bonding	6	2198
Elastic Bending of Semiconductor	**Wafer** Revisited and Comments on Stoney's Equation	10	3621
stal Quality by Crystal Originated Particle Delineation and the Impact on the Silicon	**Wafer** Surface Characterization of Cry	1	275
Low Temperature Silicon	**Wafer-to-Wafer** Bonding with Nickel Silicide	4	1360
emical Mechanical Planarization Buffing on Defect Density of Tungsten and Oxide	**Wafers** The Effects of Post Ch	12	4240
Temperature Dependence of Carrier Recombination Lifetime in Si	**Wafers**	9	3265
l Method for Monitoring Metal Contamination during Aqueous Processing of Silicon	**Wafers** An Optica	5	1688
Thickness Measurements of Epitaxial Layers of Double Epitaxial Silicon	**Wafers** by Far-Infrared Reflection	5	1720
Experimental Study of the Degradation of Mechanical Strength of Silicon	**Wafers** Caused by Large Scale Integration Processes	9	3160
Laser Microwave Photoconductance Studies of Ultraviolet-Irradiated Silicon	**Wafers**. Effect of Metallic Contamination	1	329
Photoluminescence of Semi-insulating InP	**Wafers** Prepared by Two-Step Wafer Annealing	3	1048
Gravitational Stress-Induced Dislocations in Large-Diameter Silicon	**Wafers** Studied by X-Ray Topography and Computer Simulation	7	2523
erical Electrode. Accurate Expressions for the Limiting Current and the Convective	**Warburg** Impedance Rotating Hemisph	12	4189
ructure and Sorption Properties of Nafion Proton-Exchange Membranes Swollen in	**Water** A Study of Capillary Porous St	8	2677
The Reaction of Clean Li Surfaces with Small Molecules in Ultrahigh Vacuum. II.	**Water**	1	159
n Exchange Reaction on Hydrogen-Terminated (100) Si Surface during Storage in	**Water** Hydroge	2	659
leaning and Carbonaceous Film Removal Using High Pressure, High Temperature	**Water**, and Water/CO2 Mixtures Surface C	1	284
mination Removal by Single-Wafer Spin Cleaning with Repetitive Use of Ozonized	**Water** and Dilute HF Conta	9	3278
Analysis of the Superior	**Water** Blocking Ability of Electron Cyclotron Resonance-Plasma SiO2 Film	4	1338
	Water Electrolysis Using Diamond Thin-Film Electrodes	7	2358
Phenomenological Theory of Electro-osmotic Effect and	**Water** Management in Polymer Electrolyte Proton-Conducting Membranes	8	2684
Photoelectrocatalytic Study of	**Water** Oxidation at n-RuS2 Electrodes	1	216
esponse of Nanocrystalline n-TiO2 and n-TiO2/Mn2O3 Thin Film Electrodes during	**Water** Splitting Reactions Stability and Photor	1	89
emical Stability of p-GaInP2 in Aqueous Electrolytes Toward Photoelectrochemical	**Water** Splitting Electrech	10	3336
gradation of Single and Multilayer Organic Coatings. I. Absorption and Transport of	**Water**: Theoretical Analysis and Methods Monitoring De	11	3830
Carbonaceous Film Removal Using High Pressure, High Temperature Water, and	**Water/CO2** Mixtures Surface Cleaning and	1	284

		Issue	Page
e Electrolytes by Mixing Polyethylene Oxide- and Polytetramethylene Glycol-Based	**Waterborne** Polyurethane with the Addition of LiClO4/Propylene Carbonate	10	3450
n of Oxidation Rates for a-Si1-xCx:H Films Deposited from Pulsed and Continuous	**Wave** RF Plasmas Compariso	9	3271
of Ta2O5 in NaOH-Based Solutions for Fabricating Antiresonant Reflecting Optical	**Waveguides** High-Temperature Wet Chemical Etching	3	1020
	Wear-Accelerated Corrosion of Passive Metals in Tribocorrosion Systems	3	750
	Wear-Contact Problems and Modeling of Chemical Mechanical Polishing	6	2100
ant Reflecting Optical Waveguides High-Temperature	**Wet** Chemical Etching of Ta2O5 in NaOH-Based Solutions for Fabricating Antireson	3	1020
Ultrasmooth V-Grooves in InP by Two-Step	**Wet** Chemical Etching	4	1273
	Wet Chemical Etching for V-grooves into InP Substrates	8	2931
Selective	**Wet** Etching of Lithium Gallate	5	L88
antation and H3PO4	**Wet** Etching of Al2O3 for Selective Patterning of Microstructures Using Ar+ Ion Impl	1	344
on Signals and Hydrogen Permeation in High Strength, Low Alloy Steel Cracking in	**Wet** H2S Correlation Between Acoustic Emissi	6	1968
ition Parameters on the Texture of Chemical Vapor Deposited Tungsten Films by a	**WF6/H2/Ar** Gas Source Influence of Depos	9	3235
mposition of Trichloroethylene by Microwave-Induced Plasma Generated from SiC	**Whiskers** Deco	1	229
Extension of Dose	**Window** for Low-Dose Separation by Implanted Oxygen	5	1735
Monolithic, Self-Powered Photovoltaic-Electrochromic Coating for	**Windows**	10	3545
A Contactless Method for the Directed Formation of Submicrometer Copper	**Wires**	3	L45
Low Pressure Chemically Vapor Deposited	**WO3** Thin Films for Integrated Gas Sensor Applications	4	1346
Decrease of Recombination Losses in Bicomponent	**WO3/TiO2** Films Photosensitized with Cresyl Violet and Thionine	11	3981
SZ Subjected to In Situ Electrochemical Promotion	**Work** Function and Catalytic Activity Measurements of an IrO2 Film Deposited on Y	3	905
Im Properties and Barrier Effectiveness of Chemically Vapor Deposited Amorphous	**WSix** Film Thin-Fi	12	4206
Formation of High Conductivity	**WSix** Layer and Its Characterization as a Gate Electrode	9	3228
e Electrochemical Oxidation of 1,4-Bis(methylseleno)benzene (Selenium Analog of	**Wurster's** Blue) in Acetonitrile Th	2	541

— X —

in High-Area Carbon in Aqueous Electrolytes In Situ Real-Time Pt LIII-Edge	**X-Ray** Absorption Spectra of Carbon Monoxide Adsorbed on Platinum Particles Dis	1	80
rties of Passive Films on Aluminum. II. An X-Ray Photoelectron Spectroscopy and	**X-Ray** Absorption Near Edge Structure Study Acid-Base Prope	3	829
g Redox Reactions In Situ	**X-Ray** Absorption Spectroscopic Study of Electrodeposited Nickel Oxide Films durin	4	1121
ution of LixMn2O4 in Lithium-Ion Battery Cells Measured In Situ Using Synchrotron	**X-Ray** Diffraction Techniques Structural Evol	2	466
An Electrochemical Cell for Simultaneous In Situ	**X-Ray** Diffraction and Optical Measurements	8	2759
upled CdS/CdSe Photoelectrodes Coated with ZnO. Atomic Force Microscopy and	**X-Ray** Diffraction Studies Photocorrosion of Co	10	3535
n Effect on the Structural Change in Amorphous and Crystalline GaAs with Brilliant	**X-Ray** Irradiation Using Synchrotron Radiation Inner-Shell Electron Excitatio	9	3063
dy Acid-Base Properties of Passive Films on Aluminum. II. An	**X-Ray** Photoelectron Spectroscopy and X-Ray Absorption Near Edge Structure Stu	3	829
The Passivity of Fe/Si Alloys in Aqueous Electrolytes at pH 5 and 9 Studied by	**X-Ray** Photoelectron Spectroscopy and Ion Scattering Spectroscopy	3	834
assive Films Formed on (100) Fe-18Cr-13Ni Single-Crystal Surfaces	**X-Ray** Photoelectron Spectroscopy and Scanning Tunneling Microscopy Study of P	3	909
In Situ	**X-Ray** Study of LiMnO2	8	2672
vitational Stress-Induced Dislocations in Large-Diameter Silicon Wafers Studied by	**X-Ray** Topography and Computer Simulation Gra	7	2523
lectrochemical Behavior of Cr2O3/Fe2O3 Artificial Passive Films Studied by In Situ	**XANES** E	3	791
Characterization of Sol-Gel-Derived Cobalt Oxide	**Xerogels** as Electrochemical Capacitors	12	4097
PtRu Alloy Colloids as Precursors for Fuel Cell Catalysts. A Combined	**XPS**, AFM, HRTEM, and RDE Study	3	925

— Y —

trochemical Oxidation in a CH4-H2O System at the Interface of a Pt Electrode and	**Y2O3-Stabilized** ZrO2 Electrolyte. I. Determination of the Predominant Reaction Pr	3	920
trochemical Oxidation in a CH4-H2O System at the Interface of a Pt Electrode and	**Y2O3-Stabilized** ZrO2 Electrolyte. II. The Rates of Electrochemical Reactions Takin	9	3117
Reduction of Electron-Beam Induced Degradation by Rare Earth Doping in	**Y3(Al,Ga)5O12:Tb** Phosphors	1	270
The Relationship Between Power Dissipated in Glow Discharges and Nonfaradaic	**Yields** A Study on the Origin of Nonfaradaic Behavior of Anodic Contact Glo	7	2209
Work Function and Catalytic Activity Measurements of an IrO2 Film Deposited on	**YSZ** Subjected to In Situ Electrochemical Promotion	3	905
nthanum Manganite Composite Electrodes The Role of 8 mol %	**Yttria** Stabilized Zirconia in the Improvement of Electrochemical Performance of La	6	1932
xide Fuel Cell with Composite Electrolyte Consisting of Samaria-Doped Ceria and	**Yttria-Stabilized** Zirconia Solid O	3	1004
Effect of Aging on	**Yttria-Stabilized** Zirconia. I. A Study of Its Electrochemical Properties	5	1527
vity Effect of Aging on	**Yttria-Stabilized** Zirconia. II. A Study of the Effect of the Microstructure on Conducti	5	1536
ity Effect of Aging on	**Yttria-Stabilized** Zirconia. III. A Study of the Effect of Local Structures on Conductiv	5	1550
Kinetics of Vapor-Phase Electrolytic Deposition of	**Yttria-Stabilized** Zirconia Thin Films	12	4277

— Z —

Characterization of the Passive State on	**Zinc**	9	3141
The Role of Carbon Dioxide in the Atmospheric Corrosion of	**Zinc**. A Laboratory Study	1	39
The Influence of CO2 and NaCl on the Atmospheric Corrosion of	**Zinc**. A Laboratory Study	9	2993
eposition of Zinc Oxide and Zinc Hydroxychloride Films from Oxygenated Aqueous	**Zinc** Chloride Solutions Mechanistic Study of Cathodic Electrod	3	864
Nucleation and Growth of	**Zinc** from Chloride Concentrated Solutions	12	4090
Mechanistic Study of Cathodic Electrodeposition of Zinc Oxide and	**Zinc** Hydroxychloride Films from Oxygenated Aqueous Zinc Chloride Solutions	3	864
e Solutions Mechanistic Study of Cathodic Electrodeposition of	**Zinc** Oxide and Zinc Hydroxychloride Films from Oxygenated Aqueous Zinc Chlorid	3	864
Analysis of Surface Carbon Contamination on Phosphated	**Zinc** Surfaces by Scanning Kelvin Probe Measurements	3	L39
tal Study Characterization of Hydrogen Permeation Through	**Zinc-Nickel** Alloys under Corroding Conditions. Mathematical Model and Experimen	6	1907
nsor Using a Combined Electrolyte of Sodium Ion Conducting Glass and Stabilized	**Zirconia** Influence of Humidity on a Potentiometric CO2 Gas Se	9	2981
ith Composite Electrolyte Consisting of Samaria-Doped Ceria and Yttria-Stabilized	**Zirconia** Solid Oxide Fuel Cell w	3	1004
Effect of Aging on Yttria-Stabilized	**Zirconia**. I. A Study of Its Electrochemical Properties	5	1527
Effect of Aging on Yttria-Stabilized	**Zirconia**. II. A Study of the Effect of the Microstructure on Conductivity	5	1536
Effect of Aging on Yttria-Stabilized	**Zirconia**. III. A Study of the Effect of Local Structures on Conductivity	5	1550
nite Composite Electrodes The Role of 8 mol % Yttria Stabilized	**Zirconia** in the Improvement of Electrochemical Performance of Lanthanum Manga	6	1932
cal Modeling of Oxygen Exchange and Transport in Air-Perovskite-Yttria-Stabilized	**Zirconia** Interface Regions. II. Direct Exchange of Oxygen Vacancies Mathe	4	1390
tive Sites Imaging for Oxygen Reduction at the La0.9Sr0.1MnO3-x/Yttria-Stabilized	**Zirconia** Interface by Secondary-Ion Mass Spectrometry Ac	9	3196
Morphological Changes at the Interface of the Nickel-Yttria Stabilized	**Zirconia** Point Electrode	7	2244
Kinetics of Vapor-Phase Electrolytic Deposition of Yttria-Stabilized	**Zirconia** Thin Films	12	4277
A Study of Rapid Photothermal Annealing of Sputtered Lead Lanthanum	**Zirconia** Titanate Thin Films	12	4317
Dielectric Properties of Radio Frequency Magnetron Sputter Deposited	**Zirconium** Titanate-Based Thin Films	1	358
Photocorrosion of Coupled CdS/CdSe Photoelectrodes Coated with	**ZnO**. Atomic Force Microscopy and X-Ray Diffraction Studies	10	3535
From	**ZnO** Colloids to Nanocrystalline Highly Conductive Films	10	3632
Growth of III-Nitrides on	**ZnO**, LiGaO2, and LiAlO2 Substrates	7	2581
sion Mechanism of Electroless Copper Film Formed on Ceramic Substrates Using	**ZnO** Thin Film as an Intermediate Layer Adhe	5	1430
Formation of Catalytic Pd on	**ZnO** Thin Films for Electroless Metal Deposition	10	3378
Current Change Method of Reducing Gas Sensing Using	**ZnO** Varistors	8	2920
Modeling and Process Optimization of ZnSe and	**ZnS** Epitaxial Growth in a Vertical Metallorganic Vapor-Phase Epitaxy Reactor	8	2887
The Effect of Processing Conditions on Crystal Orientation and Structure in	**ZnS:Mn** Thin Films	1	226
actor Modeling and Process Optimization of	**ZnSe** and ZnS Epitaxial Growth in a Vertical Metallorganic Vapor-Phase Epitaxy Re	8	2887
Mechanistic Studies on the Electrodeposition of	**ZnTe**	1	337
Heat Transfer, Fluid Flow, and Interface Shapes in	**Zone** Melting Processing with Induction Heating	11	3926
scopy Techniques Denuded	**Zone** Thickness from Surface Photovoltage Measurements. Comparison with Micro	5	1632
Boron Diffusion in Compressively Stressed Float	**Zone-Silicon** Induced by Si3N4 Films	1	258
le Batteries Evaluation of	**Zr(Ni,Mn)2** Laves Phase Alloys as Negative Active Material for Ni-MH Electric Vehic	5	1478
The Effect of Annealing on the Discharge Characteristics of a	**Zr-V-Mn-Ni** Hydrogen Storage Alloy	6	1953
rmination of Internal Cell Pressures in Sealed Ni-MH Rechargeable Batteries Using	**Zr0.9Ti0.1(Mn0.7V0.5Ni1.2)0.92** Hydrogen-Storage Alloys Defe	10	3387
Electrochemical Properties of Over-stoichiometric	**ZrMn1-xVxNi1.4+y** Alloys with C15 Laves Phase	1	93
Fabrication of Ag/Y2O3-Stabilized	**ZrO2** Composite Films by Metallorganic Chemical Vapor Deposition	1	L4
ation in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabilized	**ZrO2** Electrolyte. I. Determination of the Predominant Reaction Process Elec	3	920
ation in a CH4-H2O System at the Interface of a Pt Electrode and Y2O3-Stabilized	**ZrO2** Electrolyte. II. The Rates of Electrochemical Reactions Taking Place in Paralle	9	3117